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GENERAL

(incl. Statistics)

3225. Abel, T. M. The sixteenth annual meeting of the Eastern Psychological Association. *Amer. J. Psychol.*, 1945, 58, 402-404.—D. E. Johannsen (Bellevue Hospital).
3226. [Anon.] Post-war psychological services in the armed forces. *Psychol. Bull.*, 1945, 42, 396-398.—Recommendations concerning postwar psychological services in the armed forces are offered.—S. Ross (U. S. Naval Reserve).
3227. Bartlett, F. C. Obituary: Dr. K. J. W. Craik. *Nature, Lond.*, 1945, 155, 720.—A summary of Dr. Craik's career is presented, with an appreciation of him as a person and as a scientist interested in visual problems and the characteristics of voluntary movement.—A. C. Hoffman (Tufts).
3228. Bergmann, G. A positivistic metaphysics of consciousness. *Mind*, 1945, 54, 193-226.—Positivists have neglected to analyze the relations that are said to obtain between the self and the contents of its consciousness (propositional attitudes, acts, aboutness). The problem consists in acknowledging the existence of acts, and in realizing at the same time that they are not existing relationships between an "I" and something else. The assumption of a referent for the term "I" is not consistent with positivism. The positivists, therefore, did not want to admit acts; and in so doing they, unfortunately, eliminated awareness entirely. The author tries to solve the problem by introducing the concept of a hierarchy of different languages. The statement "I see green now" can only be translated into a compound of several statements that belong to different layers of the hierarchy. "Aboutness is neither a natural, nor a philosophical, nor a linguistic relation, but a linguistic illusion."—F. Heider (Smith).
3229. Berkson, J. Application of the logistic function to bio-assay. *J. Amer. statist. Ass.*, 1944, 39, 357-365.—The author compares the uses of the logistic function with the integral of the normal curve on several sets of data and indicates the general usefulness of the logistic function. A simplified nomograph is presented for obtaining the "logit" corresponding to a given mortality rate or other percentage value.—T. G. Andrews (Chicago).
3230. Blackburn, J. Psychology and the social pattern. London: Kegan Paul, 1945. Pp. viii + 157. 10s. 6d.—This is an introductory textbook on general (especially experimental) psychology which sets out to develop the social aspects of behavior and to link them with psychopathology. It is for use by students in sociology and elementary psychology and is intended to precede a forthcoming book by the same author on social relationships and the social framework of behavior. The main topics dealt with are: perceiving, thinking, remembering, intelligence, personality, motivation, and emotion.—M. D. Vernon (Cambridge).
3231. Bousfield, W. A., & Nowlis, V. The construction of a punch maze. *J. exp. Psychol.*, 1945, 35, 330-333.—A punch maze presenting a sequence of 15 right-left choices was developed for use in learning experiments in laboratory classes. The maze, made from two pieces of heavy cardboard, is simple both to administer and to score.—D. W. Taylor (Stanford).
3232. Carmichael, L. Edmund Burke Delabarre, 1863-1945. *Amer. J. Psychol.*, 1945, 58, 406-409.—Obituary and appreciation.—D. E. Johannsen (Bellevue Hospital).
3233. Conrad, K. Ganzheitspsychologie (Sammelreferat). (Totality psychology; general review). *Fortschr. Neurol. Psychiat.*, 1943, 15, 131-162.
3234. Darlington, H. S. The problem of pre-natal mentation. *Psychoanal. Rev.*, 1945, 32, 319-324.—Reports regarding experiences of one's former or prenatal life are open to question, since most reports represent the previous life as a more satisfying one than the present and hence are probably wish-fulfilling fantasies.—L. B. Heathers (Washington).
3235. Dyson, F. J. A note on kurtosis. *J. R. statist. Soc.*, 1943, 106, 360-361.—The author points out several discrepancies in the literature on analysis of kurtosis, and he derives formulas for making precise statements about kurtosis.—T. G. Andrews (Chicago).
3236. Fernberger, S. W. The forty-first annual meeting of the Society of Experimental Psychologists. *Amer. J. Psychol.*, 1945, 58, 405.—D. E. Johannsen (Bellevue Hospital).
3237. Goodenough, F. L. Developmental psychology; an introduction to the study of human behavior. (2nd ed.) New York: D. Appleton-Century, 1945. Pp. xxii + 723. \$3.75.—"Like the first edition [see 8: 4340], the present volume is intended as a basic text for the first course in psychology." The author presents the established principles of human behavior through "a study of the growing and changing reactions of human beings throughout the life span." The developmental approach is emphasized in the text, as well as in the organization of subject matter indicated by the following general plan of the book: principles and methods of modern psychology (2 chapters); the child's equipment for living (5 chapters); the normal course of human development (16 chapters); personality deviations (4 chapters); and the mental hygiene of development (3 chapters). Relevant questions are presented at the beginning of each chapter with the purpose of stimulating the student's thought and directing attention toward concepts of especial significance.—E. B. Mallory (Wellesley).
3238. Herdan, G. The logical and analytical relationship between the theory of accidents and

factor analysis. *J. R. statist. Soc.*, 1943, 106, 125-142.—It is indicated that there is a relationship between studies of accident liability or proneness and studies in factor analysis (Spearman's two factor theory). This relationship is demonstrated logically and mathematically.—*T. G. Andrews* (Chicago).

3239. Hoyt, C. The principle of likelihood as a basis for tests of significance. *J. exp. Educ.*, 1945, 13, 136-144.—The author discusses the essential elements of the Neyman-Pearson use of the principle of likelihood in the development of criteria for testing statistical hypotheses, and he presents four general formulas, showing how such criteria are determined for a number of tests.—*E. B. Mallory* (Wellesley).

3240. Irwin, J. O. A table of the variance of \sqrt{x} when x has a Poisson distribution. *J. R. statist. Soc.*, 1943, 106, 143-144.—*T. G. Andrews* (Chicago).

3241. Jackson, R. W. B., & Phillips, A. J. Prediction efficiencies by deciles for various degrees of relationship. *Educ. Res. Ser., Univ. Toronto*, 1945, No. 11. Pp. 18.—Tables have been compiled for use in problems of the prediction of success or failure when it can be assumed that the two correlated variables are normally distributed. Two-way frequency tables, in decile units for both variables, show the expected or theoretical frequencies in each decile cell, for correlations from .30 to .95 inclusive. A second set of tables gives the percentage of successful and unsuccessful individuals in each decile for each value of r and for failure ratios from 20% to 80%.—*E. B. Mallory* (Wellesley).

3242. Johnson, P. O., & Tsao, F. Testing a certain hypothesis regarding variances affected by means. *J. exp. Educ.*, 1945, 13, 145-148.—A form of procedure is offered for testing the hypothesis of equality of standard deviations after adjustment for the inequality of means.—*E. B. Mallory* (Wellesley).

3243. Larrabee, H. A. Reliable knowledge. Boston: Houghton Mifflin, 1945. Pp. 692. \$3.75.—This is a text for college students on ways of evaluating knowledge, including hypothesis, observation, analysis, formal logic, and sampling of experience.—(Courtesy *Publishers' Weekly*).

3244. Patterson, C. H. Clinical psychology in the Army: a bibliography. *Psychol. Bull.*, 1945, 42, 393-395.—The bibliography consists of 51 published reports of clinical psychology in the Army.—*S. Ross* (U. S. Naval Reserve).

3245. Sandon, F. Control charts in script assessment in large written examinations. *J. R. statist. Soc.*, 1943, 106, 343-348.—This article describes a technique of constructing and using control charts for checking on such things as fluctuations due to sex, to the examiner, etc., in the analysis of large testing surveys.—*T. G. Andrews* (Chicago).

3246. Stace, W. T. The problem of unreasoned beliefs. *Mind*, 1945, 54, 27-49; 122-147.—Epistemologists have neglected the study of beliefs which are neither cases of immediate knowledge nor have been reached by a process of reasoning. These beliefs are very common and often have a certain validity, i.e., they lead to true conclusions with a frequency greater than chance. Examples are: belief in other

minds, in an independent physical world, moral "intuitions," basic beliefs of philosophers, mathematical intuitions of infant prodigies, intuitive appraisals of human or economic situations. The problem arises: How can nonrational thought processes possess validity? A first step in the solution of this problem can be made by a psychological description of these processes. Responsible for these beliefs can be associative thinking, unexplicit inductive or deductive reasoning, or pragmatic thinking (a belief produces advantages for thinking or acting). The author offers suggestions on how to determine the probability with which these processes lead to truth.—*F. Heider* (Smith).

3247. Stevenson, I. A bibliography of naval clinical psychology. *Psychol. Bull.*, 1945, 42, 390-392.—Publications (65) by psychologists from various naval activities are listed.—*S. Ross* (U. S. Naval Reserve).

3248. Vajda, S. The algebraic analysis of contingency tables. *J. R. statist. Soc.*, 1943, 106, 333-342.—A description is given of some aspects of chi-square and analysis of variance applicable to certain types of contingency tables with multiple classifications. Formulas are fully derived and several illustrative tables are analyzed.—*T. G. Andrews* (Chicago).

3249. Vargas, S. A. Psychology and philosophy of teaching, according to traditional philosophy and modern trends. *Cath. Univ. Amer. phil. Stud.*, 1944, 82. Pp. xiv + 293.—An appraisal of current educational and psychological theories and practices from the Thomist viewpoint is given. "There is no problem created by the new advances in the field of educational psychology which has not been in some way foreseen by St. Thomas or that cannot be solved by the principles of the *philosophia perennis*." A distinction is made between instruction, or knowledge which affects the intellect only, and formation, or guidance which develops the will. The improvement of volition occurs best by combining its normal or rational training with the gymnastic or mechanical training of the sense of effort and self-control. The favorable effect on personality of an acceptance of theocentric humanism contrasts sharply with the dehumanization of man brought about by naturalism, largely because the former supplies a more adequate hierarchy of values. Darwinism, behaviorism, Thorndikian pedagogy, Freudism, and Gestalt theory are all examined and rejected in favor of a position which recognizes the supernatural destiny of man and consequently befits his greatness and dignity. The rules of sound teaching must be the laws of this type of psychology transformed into practical maxims and tested by daily applications.—*G. W. Hartmann* (Teachers College, Columbia).

3250. [Various.] Pierre Marie (1853-1940). *Rev. neurol.*, 1939-1940, 72, 533-543.—Obituary; portrait.

3251. Venable, V. Human nature: the Marxian view. New York: Knopf, 1945. Pp. xii + 217. \$3.00.

3252. Wald, A. Sequential tests of statistical hypotheses. *Ann. math. Statist.*, 1945, 16, 117-186.

[See also abstract 3509.]

NERVOUS SYSTEM

3253. Alexander, L., & Löwenbach, H. Experimental studies on electro-shock treatment: the intracerebral vascular reaction as an indicator of the path of the current and the threshold of early changes within the brain tissue. *J. Neuropath. exp. Neurol.*, 1944, 3, 139-171.—T. G. Andrews (Chicago).
3254. Babaskil, E. B., & Kirillova, A. A. [Formation and functional role of acetylcholine in the nerve centers.] *Bull. Biol. Méd. exp. URSS*, 1944, 17, Nos. 1/2, 37-40.—It is shown that in the central nervous system acetylcholine is formed in amounts sufficient for physiological action.—(Courtesy *J. ment. Sci.*).
3255. Baudouin, —. *Recherches sur l'électro-encéphalographie.* (Researches on electroencephalography.) *Ann. méd.-psychol.*, 1942, 100, 55 ff.
3256. Bertrand, L., Gosset, J., & others. Action du ganglion stellaire sur l'électro-encéphalogramme. (Action of the stellate ganglion on the electroencephalogram.) *Rev. neurol.*, 1941, 73, 326-346.
3257. Brazier, M. A. B., Finesinger, J. E., & Cobb, S. A contrast between the electroencephalograms of 100 psychoneurotic patients and those of 500 normal adults. *Amer. J. Psychiat.*, 1945, 101, 443-448.—The authors compared the EEG tracings of 100 psychoneurotic patients with those previously obtained for 500 normal adults. Their findings indicated that: (1) psychoneurotics show no gross abnormalities of wave pattern and fall within the normal range and (2) the psychoneurotic group differs statistically from the normal group in the quantitative distribution of their data. Physiological factors which might contribute to these findings are discussed.—R. D. Weits (Jersey City, N. J.).
3258. Greenblatt, M., & Levin, S. Factors affecting the electroencephalogram of patients with neurosyphilis. *Amer. J. Psychiat.*, 1945, 102, 40-48.
3259. Kennard, M. A. Reactions of monkeys of various ages to partial and complete decortication. *J. Neuropath. exp. Neurol.*, 1944, 3, 289-310.—Decortication of the adult monkey limits its motor performance to the simpler righting reflexes. It is moderately spastic and relatively less motile than the decorticate infant, which has a more complex pattern of motor performances. The infant rights itself, maintains standing posture, and walks spontaneously, showing no spasticity, and has exaggerated flexion in its resting posture. Destruction of large parts of the cortex at various ages has confirmed the observation that the infant cortex has a greater capacity for reintegration of motor activity than has the cortex of the adult.—T. G. Andrews (Chicago).
3260. Lassek, A. M. The human pyramidal tract. VIII. A preliminary investigation of the effect of hemiplegias on the fiber components of the pyramids. *J. Neuropath. exp. Neurol.*, 1944, 3, 189-192.—Attempt was made to attack the question of how much and what part of the pyramidal tract must be affected to produce any one or all of the typical symptoms of destruction in hemiplegia or hemiparesis. The pyramids of the brains of 90 cases of hemiplegia and hemiparesis were studied. Complete destruction was found in only 4 of the cases, and it was more usual to find more fibers preserved than degenerated.—T. G. Andrews (Chicago).
3261. Moore, A. R., & Bradway, W. E. The significance of action potentials in the isolated nerve cord of the earthworm (*Lumbricus terrestris*). *J. cell. comp. Physiol.*, 1945, 25, 181-188.—"Treatment of the nerve cord of the earthworm with salts and organic substances, that presumably act on the neurons, gives spontaneous potentials which are closely correlated with the muscular contraction that follows excitation of the cord in situ. This is evidence that the groups of action potentials in the isolated cord are indicators of functional activity. There are two stages in etherization of the cord, excitatory followed by inhibitory. Hence the isolated cord resembles various animals in its response to light and deep etherization." It is concluded that if there is a chemical component of transmission in the annelid nerve cord, the substance or substances are other than those which presumably have this function in the vertebrate.—F. Beach (American Museum of Natural History).
3262. Puech, P., Lerique-Koechlin, A., & Lerique, J. L'électro-encéphalogramme dans les traumatismes cranio-cérébraux. (The electroencephalogram in cranio-cerebral traumatism.) *Rev. neurol.*, 1943, 75, 169-183.
3263. Rashevsky, N. A reinterpretation of the mathematical biophysics of the central nervous system in the light of neurophysiological findings. *Bull. math. Biophys.*, 1945, 7, 151-160.—The fundamental equations for the interaction between neurons used in mathematical biophysics seem at first incompatible with the actual neurophysiological findings on the synaptic transmission. It is shown, however, that those equations may be readily interpreted in terms of accepted neurophysiological views. What has been termed "synapse" in mathematical biophysics must be regarded as a complicated network of internuncial neurons. It is shown that, under rather general conditions, the number of those interneurons will statistically vary with time according to the differential equation postulated for the excitatory and inhibitory factors. The latter are thus interpreted as the number of excitatory and inhibitory interneurons.—(Courtesy *Bull. math. Biophys.*).
3264. Riese, W. Structure and function of the brain of the opossum (*Didelphis virginiana*) at the time of birth. *J. Mammal.*, 1945, 26, 148-153.
3265. Sarkisov, S. Some new developments in the morphophysiology of the cerebral cortex. *Brit. med. J.*, 1945, 2, 37-40.
3266. Strauss, H., & Wechsler, I. S. Clinical and electroencephalographic studies of changes of cerebral function associated with variations in the blood sugar. *Amer. J. Psychiat.*, 1945, 102, 34-39.
3267. Winkelman, N. W., & Moore, M. T. Neurohistologic findings in experimental electric shock treatment. *J. Neuropath. exp. Neurol.*, 1944, 3, 199-209.—Vascular changes were the only ones noted in the brains of 13 cats given electroshock in similar fashion to human shock therapy.—T. G. Andrews (Chicago).

[See also abstracts 3331, 3332, 3342, 3350, 3356, 3535.]

RECEPTIVE AND PERCEPTUAL PROCESSES

3268. Alger, L. G. The cause and treatment of poor vision in aniridia. *Amer. J. Ophthalm.*, 1945, 28, 730-735.—Demonstrating by photographic analogy that aberration of light in aniridia might account for poor vision even in the absence of any foveal defect, it is suggested that corneal tattooing might definitely contribute to improved visual acuity and reduction of photophobia.—D. J. Shaad (Kansas City, Kans.).

3269. Bing, J. A. The functional approach to visual problems. *Optom. Wkly.*, 1945, 36, 833-836; 850.—A brief outline of the functional approach to visual problems is followed by a discussion of present trends in applied visual science and a description of some procedures currently used for the evaluation of visual performance.—D. J. Shaad (Kansas City, Kans.).

3270. Boder, D. P. Discrimination of visual patterns protracted in time: a preliminary report on the VS test. *J. Psychol.*, 1945, 20, 113-134.—Ninety-three male and 218 female ESMWT students and 91 male and 154 female college sophomores were given 2 consecutive 4-minute trials in identifying flashing lights belonging in 8 patterns of 6 or 7 lamps each. The apparatus consisted either of a board with 6 rows of 9 colored lamps each, topped with a master row of 9 lamps, or a color film of this board. The 8 patterns appeared at intervals of .3 sec. and remained lighted about .8 sec. This VS (visual simultaneity) test gave a wide spread of scores, correlated .20 with conventional intelligence or "high school mathematics" tests, showed a between-trial reliability of .53 to .93, a pronounced practice effect on practice with a second form, and some slight superiority of male over female and possibly of younger over older subjects.—R. B. Ammons (Iowa).

3271. Burian, H. M., & Ogle, K. N. Aniseikonia and spatial orientation. *Amer. J. Ophthalm.*, 1945, 28, 735-743.—Experimental study of artificially induced meridional aniseikonia indicates that only partial compensation occurs by constant wearing of the lenses inducing the defect.—D. J. Shaad (Kansas City, Kans.).

3272. Devaux, E. *La vision.* (Vision.) Paris: Presses Universitaires de France, 1943. Pp. 120.

3273. Dvorine, I. Author's comments upon the review of Color Perception Charts. *Amer. J. Psychol.*, 1945, 58, 397-399.—The author answers the criticisms offered by Murray in the April issue of the *Journal*.—D. E. Johannsen (Bellevue Hospital).

3274. Elhardt, W. P. Notes on the relation of pain to certain emotive conditions. *Amer. J. Psychol.*, 1945, 58, 392-394.—A man who had lost the fingers of his right hand and part of the right shoulder 26 years ago kept a diary record for a period of 2 years of all emotional reactions and the concomitant recurring pain in arm and hand. It was found that anger led to pain about 50% of the time, fear and happiness had no effect, but worry and sorrow brought it in 90% of the cases. Excitement

or anger when followed by depression induced pain 100% of the time. These results are considered theoretically from the point of view of physiology.—D. E. Johannsen (Bellevue Hospital).

3275. Esteban, M. *Las funciones visuales en aeronáutica.* (Visual functions in aeronautics.) Madrid: Ed. Morata, 1941. Pp. 79.

3276. Fink, W. H. An evaluation of visual-acuity symbols. *Amer. J. Ophthalm.*, 1945, 28, 701-711.—A review of the types of visual acuity charts now in use, with a discussion of their advantages and disadvantages, is followed by the recommendation that ophthalmologists as a group should standardize the method of testing visual acuity.—D. J. Shaad (Kansas City, Kans.).

3277. Goodlaw, E. I. Visual discomfort caused by fluorescent lighting. *Amer. J. Optom.*, 1945, 22, 406-424.

3278. Gourevich, M. M. The geometrical solutions of some color mixture problems. *J. opt. Soc. Amer.*, 1945, 35, 196-198.—Three primary colors may be represented by as many vectors drawn in various directions from a common point of origin. The plane determined by the end points of these three vectors is a useful geometrical figure upon which to locate any point representing a unit color in a manner analogous to that of the I.C.I. chromaticity diagram. The relative luminances and chromaticities of constituent colors of a color mixture may be expressed geometrically by the use of the vector diagram.—L. A. Riggs (Brown).

3279. Halstead, W. C. Chronic intermittent anoxia and the dynamic visual field. *J. Psychol.*, 1945, 20, 49-56.—Twenty male subjects, selected to meet physical, mental, and age standards of the Service Air Corps, were exposed in a low pressure chamber to a simulated altitude of 10,000 feet for 5 or 6 hours a day, 6 days a week, for 4 to 6 weeks. Only one of the number of neuropsychological indicators changed significantly: perceptual errors for peripheral targets on the dynamic visual field test increased. This change was earlier and more rapid for 4 subjects at higher "altitudes." It was apparently prevented by fractional oxygen therapy and not related to O₂ or CO₂ tensions. All subjects developed minor complaints or showed minor clinical signs of altered behavior during the course of the experiment.—R. B. Ammons (Iowa).

3280. Halstead, W. C. Chronic intermittent anoxia and impairment of peripheral vision. *Science*, 1945, 101, 615-616.—In a group of carefully selected male subjects, 65% developed marked impairment of peripheral vision after exposure to chronic intermittent anoxia of altitude pressures as low as 10,000 feet above sea level. "Certain lines of evidence point to the cortex of the frontal lobes of the brain as the probable region involved in the alteration of peripheral vision described here."—F. A. Mote (Connecticut).

3281. Hardy, L. H., Rand, G., & Rittler, M. C. Tests for the detection and analysis of color-blindness. I. The Ishihara Test: an evaluation. *J. opt. Soc. Amer.*, 1945, 35, 268-275.—"The Ishihara test for color-blindness, taken as a representative type of polychromatic tests, fails to give more than a super-

ficial evaluation of the state of an observer's color vision. It can be utilized as a good rough screening test for red-green color-blindness, but in so doing most of the plates could be discarded. The results obtained are dependent to a large extent upon the illuminant used, and this fact militates against the deuteranomalous observer. The test gives neither an adequate qualitative (type of defect) nor quantitative (extent of defect) diagnosis, and may give a wrong diagnosis. Results obtained by this test should be discounted unless verified by other modern types of tests."—*L. A. Riggs (Brown)*.

3282. **Harris, J. D.** Group audiometry. *J. acoust. Soc. Amer.*, 1945, 17, 73-76.—Audiometric apparatus was adapted for use in group testing. The reliability of the results compares favorably with results with the usual individual method.—*E. G. Wever (Princeton)*.

3283. **Hecht, S., & Hsia, Y.** Dark adaptation following light adaptation to red and white lights. *J. opt. Soc. Amer.*, 1945, 35, 261-267.—After thorough dark adaptation, the observer was adapted either to a red field or to a white field of equivalent photopic brightness. Subsequent dark adaptation, measured by threshold determinations for a 3° blue field, 7° off center, was considerably more rapid after red than after white light adaptation. By varying the brightness of the adapting light it was found that the red could be about 30 times as bright as the white and still yield the same degree of dark adaptation in the same length of time. It is thought that errors in photometric procedure were present in the experiments of another investigator, who concluded that the degree of dark adaptation was determined primarily by the brightness and not the spectral composition of the adapting light.—*L. A. Riggs (Brown)*.

3284. **Judd, D. B.** Standard response functions for protanopic and deutanopic vision. *J. opt. Soc. Amer.*, 1945, 35, 199-221.—Three functions of wave length have been derived, chiefly from the work of Pitt, to indicate the metamers (equivalent color mixtures) for the I.C.I. standard observer. Of the three functions, W_s , W_p , and K , two alone (W_s and K) are adequate to express the metamers of the average deutanopic observer. Similarly, W_s and K are adequate in the case of the average protanope. The use of the three functions facilitates the analysis of color confusions by reference to certain theories of color vision. 59-item bibliography.—*L. A. Riggs (Brown)*.

3285. **Kaplan, H. M., & Lynch, R. J.** Color blindness in the psychoses. *Amer. J. Psychiat.*, 1945, 101, 675-676.—The authors report the results of their study of 403 psychotic males and females. They found that the psychotics showed a high incidence of color defect in comparison with the normal. They suggest that color blindness is not a localized peculiarity of the retina but is a phenomenon which is associated with other bodily and mental features.—*R. D. Weitz (Jersey City, N. J.)*.

3286. **Mainland, R. C.** Absence of olfactory sensation. *J. Hered.*, 1945, 36, 143-144.—A pedigree is given in which the olfactory sensation is absent through three generations. This deficiency

appears to depend upon a single dominant autosomal gene. Olfactory and gustatory tests were run, using a normal control. The propositus was unable to smell certain strong substances, such as oil of cloves, oil of peppermint, lysol, and butyl mercaptan, but she was able to taste (when blindfolded) such substances as oil of peppermint, sodium bicarbonate, quinine sulfate, and powdered sugar. No explanation for the first-mentioned taste is offered. The oil of peppermint was combined with powdered sugar.—*G. C. Schwesinger (War Relocation Authority)*.

3287. **Moon, P., & Spencer, D. E.** The visual effect of non-uniform surrounds. *J. opt. Soc. Amer.*, 1945, 35, 233-248.—The paper presents an analysis of the effect of non-uniform visual fields. Three conditions are considered: (a) Eyes fixed on the work, effect of non-uniform surround is evaluated. (b) Steady-state adaptation to any part of the visual field, effect of suddenly looking back at work is evaluated. (c) Transient conditions, criterion is the unpleasant sensation rather than the reduction in vision." It is concluded that for steady vision the field should produce an adaptation helios of between one third and three times the adaptation helios of the work.—*L. A. Riggs (Brown)*.

3288. **Murray, E.** A reply to Dvorine's comments. *Amer. J. Psychol.*, 1945, 58, 399-402.—See 19: 3273.—*D. E. Johannsen (Bellevue Hospital)*.

3289. **Piéron, H.** Du mécanisme électrotonique de l'excitation galvanique du labyrinthe. (Concerning the electrotonic mechanism of galvanic excitation of the labyrinth.) *C. R. Soc. Biol. Paris*, 1942, 136, 699.

3290. **Simonson, E., Blankstein, S., & Carey, E. J.** Influence of selected spectral distribution on the glare effect, studied by means of dark adaptation. *Amer. J. Ophthalm.*, 1945, 28, 712-724.—Using dark adaptation experiments for the appraisal of the glare effect, the authors demonstrated that the cone dark adaptation proceeded faster after pre-exposure to an illuminant whose spectral range had a reduction at both ends of the visible spectrum as compared to the usual frosted lamps.—*D. J. Shaad (Kansas City, Kans.)*.

3291. **Squires, M. A., & Bernard, T.** Colour-vision and colour discrimination amongst the Bechuana. *Trans. roy. Soc. S. Afr.*, 1942, 29, No. 2, 29-34.

3292. **Studnitz, G. v., & Busch, L.** Zur Chemie der Ölkugeln. (Chemistry of the oil globule.) *Z. vergl. Physiol.*, 1941, 28, 638-647.

3293. **Wald, G.** The spectral sensitivity of the human eye. I. A spectral adaptometer. *J. opt. Soc. Amer.*, 1945, 35, 187-196.—A portable apparatus is described for providing a number of highly monochromatic lights spaced widely throughout the spectrum. A high-pressure mercury arc is used as a source, and 10 monochromatic regions of its spectrum, ranging from 365 to 750 mμ, are isolated with the aid of color filters. Data are presented on the transmissions of the various filter combinations. An appendix contains a discussion of the problem of color filter leakage, in which there is some transmission of unwanted radiation from regions other than the designated one.—*L. A. Riggs (Brown)*.

3294. Weymouth, F. W., & Hirsch, M. J. The reliability of certain tests for determining distance discrimination. *Amer. J. Psychol.*, 1945, 58, 379-390.—In a study of the reliability of methods of measuring distance discrimination, 5 tests were used: (1) rod-test by the method of constant stimuli, 5 comparison stimuli, 60 judgments on each, with only 2 judgments allowed and with the root mean square error used as the threshold measure; (2) rod-test with *S* controlling the movable rod, 12 judgments, threshold calculated by 2 methods; (3) variable rod-test, both rods moved and stopped by *S* when they appeared opposite each other; (4) tilt-test by constant method, box rotated in front of *S* and reported as right or left end nearer, measurement in degrees of angle; and (5) telebinocular test, records kept of all responses. From 28 to 65 college students served as *Ss* on each test; retests were the week after the original test. The test-retest *r*'s ranged from .60 (method 3) to .88 (method 1), but when 3 or 4 extreme cases were eliminated, the *r*'s on method 2 dropped from .62 and .86 to .05 and .18 for the two methods of calculating sensitivity. Method 5 gave an *r* of .82, but rated *Ss* far lower in sensitivity than the rod methods. The bimodal distribution suggested a shift in the judgment criteria between higher and lower scores. Since the constant methods are so time-consuming, the problem of a quick but reliable method is not yet solved.—D. E. Johannsen (Bellevue Hospital).

3295. Wolf, E. Effects of exposure to ultra-violet light on visual thresholds. *Proc. nat. Acad. Sci., Wash.*, 1945, 31, 236-241.—By using the flicker function as an index of visual threshold, chicks, aged 3 to 15 days, were first exposed for 60 minutes to three 250-watt mercury vapor lamps. Each chick's visual threshold is at intervals next determined. Results, following control experiments, indicate that (1) visual mechanisms are impaired by ultra-violet light between 300-365 m μ , (2) external appearance of the eye cannot serve as an index of ultra-violet effect on thresholds, and (3) duration of higher thresholds is reduced by the use of filters that absorb the rays up to 365 m μ and thereby prevent injurious effects.—L. A. Pennington (Illinois).

3296. Wyatt, R. F. Improvability of pitch discrimination. *Psychol. Monogr.*, 1945, 58, No. 2. Pp. v + 58.—The monograph opens with a discussion of the theoretical implications of the hypotheses concerning capacity, physiological limits, and cognitive limits. This section is followed by a review of the previous research in the field. In Wyatt's own study, 8 music and 8 non-music students were tested on the Seashore Series B pitch measure, on an oscillator, and on a test of Wyatt's devising. They were put through the same tests after considerable training on an oscillator and on a Conn chromatic stroboscope. After training, the non-music students were found to make better scores than did the music students before training. The abilities were found to transfer to octaves other than that used in the training work. The data throw into question the validity of physiological and cognitive limits and show the learning problem to be extremely complex.—P. R. Farnsworth (Stanford).

[See also abstracts 3280, 3300, 3315, 3464, 3471.]

LEARNING, CONDITIONING, INTELLIGENCE

(incl. Attention, Thought)

3297. Airapetyantz, E., & Bykov, K. Physiological experiments and the psychology of the subconscious. (Trans. by H. F. Mins, Jr.) *Phil. phenomenol. Res.*, 1945, 5, 577-593. Also *Pod. Znamenien Marksizma*, 1943, Nos. 4-5, 68-78.—After giving a short résumé of the work of Pavlov's school, the author describes briefly about 20 experiments—mainly by collaborators of the Leningrad University Laboratory—in which stimulation of interoceptors (e.g., introduction of water into stomach by a fistula) was used as CS. Results indicate that interoceptive conditioned reflexes can be produced and that differentiation experiments are successful. The author concludes from these experiments that "1) impulses arising in internal organs play an essential role in the formation of acts of higher neural activity; 2) in the cerebral cortex these impulses are in constant interaction with stimuli arriving from the external milieu." The physiological laws of interoceptive conditioned connections can explain important aspects of the subconscious.—F. Heider (Smith).

3298. Duncan, C. P. The effect of electroshock convulsions on the maze habit in the white rat. *J. exp. Psychol.*, 1945, 35, 267-278.—Twenty-eight male white rats were trained on the Lashley III maze until they had reached a criterion of three errorless trials. Twelve then received daily for 30 days one shock of 85 volts A.C. lasting .22 sec.; 8 received a similar series of shocks through the back legs; the remaining 8 received no shocks. Next, all rats were retrained on the maze until they reached the original criterion. The group receiving cerebral shock was significantly inferior to the other 2 groups in terms of: (a) trials, errors, and time during relearning, (b) percentages saved in errors, trials, and time in relearning over learning, and (c) errors and time on the first retention trial. The group receiving leg shock was slightly, but not significantly, inferior to the group receiving no shock. It is suggested that the loss of the maze habit and probably also the curing of mental patients are due, not to the punishment or fear of electroshock, but to a direct effect on cerebral tissue. The effect of cerebral shock may result from the cerebral anoxia which has been found to follow such shock.—D. W. Taylor (Stanford).

3299. Fraser Roberts, J. A. On the difference between the sexes in dispersion of intelligence. *Brit. med. J.*, 1945, 1, 727-730.—Boys have been observed to show considerably more variability in IQ than girls, although the mean IQ of both groups is approximately the same. From the data at hand, estimates of the number of boys per one hundred girls at various IQ ranges are presented. Practical implications of the problem are considered.—D. Schneider (Wisconsin).

3300. Kline, T. K. A study of the free association test with deaf children. *Amer. Ann. Deaf*, 1945, 90, 237-257.—The purpose of this study was to compare the responses of deaf children in a free association test with those of normally hearing children and

adults. The stimulus word was given in written form, and the subjects reacted by writing their responses. Fifty stimulus words were used. The age range of the subjects was from 11 to 17 years inclusive. The results show that on the whole the age trends of the deaf and hearing are in agreement. Out of the 11 categories used, 8 showed the same trend. The disagreements were in co-ordination, similarity, and whole-part responses.—H. R. Myklebust (N. J. School for the Deaf).

3301. Mackey, D. S. The illusion of memory. *Phil. Rev.*, N. Y., 1945, 54, 297-320.—The illusion discussed is the direct awareness of past objects or events seemingly involved in the memory process; it pertains only to the quality or immediacy of the memory experience. Analysis (in terms of cognition) of the traditional distinctions among retention, recall, recollection, and recognition discloses the same pervasive illusion, each of these involving an apparent recurrence of past events. (Experimental studies in memory are not the analysis of an illusion, nor illusory in results.) No memory judgment is completely verifiable, since further evidence about past events is always obtainable in their subsequent effects. Knowledge of the past must be representative or mediate. Memory is not necessarily deceptive because it involves a necessary illusion. It is illusory only with respect to the apparent immediacy of its own knowledge of the past. Memory is knowledge of regularities in the interaction of our own habits with the habits acquired by things around us. Conservation of the past, through the tendency of things to take habits, is essentially persistence of relations, whether within human memory or apart from it. Instead of seeking certainty in the progressive understanding, use, and control of present materials, we have sought certainty in the material existence of a past that has perished.—C. C. Cooper (Maryland).

3302. Mowrer, O. H., & Jones, H. Habit strength as a function of the pattern of reinforcement. *J. exp. Psychol.*, 1945, 35, 293-311.—After 4 days of preliminary training of 20 trials a day in pressing a bar to obtain food, 30 rats were randomly divided into 5 equal groups. Those in group I were rewarded after every bar depression, those in groups II, III, and IV after every second, third and fourth, respectively, and those in group V randomly after 1, 2, 3, or 4 depressions but, on the average, after 2½. Each rat was given 20 reinforcements daily for 6 days. On the 12th, 13th and 14th days, each was placed in the apparatus for 20 minutes free to press the bar at will but given no food whatever. The average number of depressions made on the 3 extinction days by groups I-IV was 128.0, 188.0, 215.5, and 272.3, respectively. However, if a response is defined as the number of depressions required to obtain food during training, the average number of responses made during extinction by the 4 groups was 128.0, 94.0, 71.8, and 68.1, respectively. If this "response-unit hypothesis" is accepted, the apparent advantage of intermittent reinforcement disappears, and the results are consistent with effect learning theory. Comparison of the performance of group V with that of the other groups indicated that

effectiveness of reinforcement is not contingent upon the factor of irregularity.—D. W. Taylor (Stanford).

3303. Spence, K. W. An experimental test of the continuity and non-continuity theories of discrimination learning. *J. exp. Psychol.*, 1945, 35, 253-266.—"Two groups of Ss [albino rats], 20 in each group, learned a white-black discrimination problem. Prior to the learning, both groups of Ss were trained for 30 trials to their preferred side, the black and white cues being absent. The experimental group was then given 20 trials in which response to the negative stimulus of the learning situation was rewarded. The control group, on the other hand, was reinforced 50 percent of the time on both the white and black stimuli during this 20-trial pre-learning period. Following a further period of training in which the position preference was eliminated, the regular learning problem was presented. Contrary to the implications of the non-continuity interpretation of discrimination learning, comparison of the experimental and control groups revealed a significant difference in speed of learning. . . . The results of the investigation are considered to be in agreement with the continuity type of theory. . . ."—D. W. Taylor (Stanford).

3304. Wallon, H. La conscience et la vie subconsciente. (Consciousness and the subconscious life.) Paris: Presses Universitaires de France, 1942. Pp. 38.

3305. Wolff, W. Emotional factors in memory. *Ciba Symposia*, 1945, 7, No. 1/2, 26-31.—Experimental findings of the effects of emotional factors upon memory are reported.—M. H. Erickson (Wayne County General Hospital).

[See also abstracts 3243, 3337, 3372, 3392, 3521, 3539.]

MOTOR AND GLANDULAR RESPONSES

(incl. Emotion, Sleep)

3306. Adler, A. The sexual function. *Indiv. Psychol. Bull.*, 1945, 4, 99-102.

3307. Alexander, S. J., Cotzin, M., Hill, C. J., Jr., Ricciuti, E. A., & Wendt, G. R. Wesleyan University studies of motion sickness: III. The effects of various accelerations upon sickness rates. *J. Psychol.*, 1945, 20, 3-8.—Four groups, 30 naval aviation cadets each, were subjected to an experimental procedure outlined in a previous article (see 19: 1188), except that the four acceleration values of .20, .25, .36, and .65g were used with a constant mid-wave velocity of 400 ft./min., resulting in wave frequencies of 13, 16, 22, and 32 cycles per minute. The obtained sickness rates, going from the lowest to the highest acceleration were 40, 43, 53, and 13%. "It . . . appears as though the vomiting mechanisms are maximally stimulated by waves of certain moderate frequency or acceleration values. This finding raises the question of whether the wave-characteristic which is most closely related to sickness is a particular acceleration value, a particular duration of acceleration, or a particular time interval between accelerations."—R. B. Ammons (Iowa).

3308. Alexander, S. J., Cotzin, M., Hill, C. J., Jr., Ricciuti, E. A., & Wendt, G. R. Wesleyan University studies of motion sickness: IV. The effects of waves containing two acceleration levels upon sickness. *J. Psychol.*, 1945, 20, 9-18.—Two experiments are reported. "In the first experiment on 99 subjects sickness rates of a symmetrical 16-cycle per minute wave with similar half-waves (acceleration = 0.25g) were compared with those of two asymmetrical 16-cycle waves composed of different half-waves (accelerations = 0.65 and 0.17g), each by itself relatively non-nauseating (when used in equal acceleration waves). The obtained sickness rates were: equal acceleration, 48 per cent; low acceleration in bottom half of wave and high acceleration in top half, 9 per cent; low acceleration in top half of wave and high in bottom half, 21 per cent. . . . In the second experiment on 48 subjects sickness rates of two asymmetrical 21-cycle per minute waves were compared, made up of a relatively non-nauseating half-wave (acceleration = 0.65g) and a nauseating half-wave (acceleration = 0.25g). With 0.25g at the bottom, 29 per cent were sick; with 0.25g at the top, 33 per cent were sick. Sickness indices were 38 and 42. . . . The results appear to indicate that the particular half-wave character is a more significant condition of motion sickness than is the particular over-all wave-frequency. . . . Our data from the whole series of studies appear to be most easily accounted for by hypothesizing the existence of resonant mechanical system with a natural frequency . . . of . . . 16 or 22 cycles per minute."—R. B. Ammons (Iowa).

3309. Alexander, S. J., Cotzin, M., Hill, C. J., Jr., Ricciuti, E. A., & Wendt, G. R. Wesleyan University studies of motion sickness: V. Incidence of sickness at various hours of the day. *J. Psychol.*, 1945, 20, 19-24.—"In two series of experiments, one with 330 naval aviation cadets and one with 120 naval officer-candidate trainees, the incidence of motion sickness resulting from 20 minutes' exposure of blindfolded subjects on a vertical accelerator was analyzed for any relationship to hour of the day. All other known important variables were counter-balanced or controlled. The analysis revealed no reliable evidence of a relationship of incidence of sickness to meal-time or to the period of the day. . . . There was some consistency among experiments in the amount of sickness at different hours, but there are no obvious hypotheses to account for the obtained distributions of sickness rates."—R. B. Ammons (Iowa).

3310. Alexander, S. J., Cotzin, M., Hill, C. J., Jr., Ricciuti, E. A., & Wendt, G. R. Wesleyan University studies of motion sickness: VI. Prediction of sickness on a vertical accelerator by means of a motion sickness history questionnaire. *J. Psychol.*, 1945, 20, 25-30.—"In a series of five experiments using a total of 477 naval officer-candidates, the incidence of motion sickness resulting from a 20-minutes' exposure of blindfolded subjects on a vertical accelerator was analyzed for its relationship to previous history of motion sickness as determined by questionnaire. . . . Each of three susceptibility categories, according to the questionnaire, was equally represented with each of the 14 wave-types

used. . . . The obtained over-all rates of sickness on the vertical accelerator in each group of subjects divided according to past history were: susceptibles, 45 per cent; intermediates, 24 per cent; non-susceptibles, 14 per cent. . . . The results are interpreted as indicating that machine sickness has factors in common with other forms of motion sickness. It is also suggested that a questionnaire might yield prediction of sickness in military situations and might be used as an elimination or selection device."—R. B. Ammons (Iowa).

3311. Alexander, S. J., Cotzin, M., Hill, C. J., Jr., Ricciuti, E. A., & Wendt, G. R. Wesleyan University studies of motion sickness: VII. The effects of sickness upon performance. *J. Psychol.*, 1945, 20, 31-39.—Before and after exposure to motion in the vertical accelerator, all subjects took certain performance tests: Mashburn Complex Coördinator, obstacle run, sixty-yard dash, and dart throwing. Although all tests showed a slight deficit after exposure, only a 4% loss on the Mashburn was statistically significant. "These results are interpreted as indicating that a brief exposure to motion (20 minutes or until vomiting occurred) probably has no important effects upon laboratory motor performance tests. Other analyses showed that neither susceptibility to machine sickness nor past history of sickness bears any relation to normal motor performance ability on any of the tests administered before exposure to motion."—R. B. Ammons (Iowa).

3312. Altenburg, E. *Genetics*. New York: Holt, 1945. Pp. xii + 452. \$3.20.—"Genetics in the modern sense might therefore better be defined as the science which concerns itself with the study of the germ plasm." The present textbook places emphasis upon principles rather than upon details. The chapters are each followed by summaries and problems.—W. S. Hunter (Brown).

3313. Bain, R. *The ages of man*. *Amer. sociol. Rev.*, 1945, 10, 337-343.—In this brief essay, the author reviews the ages of man in species perspective and then discusses in terms of their measurement and meaning 5 other ages: chronological age, mental age, biological age, emotional age, and social age.—C. N. Cofer (U. S. Naval Reserve).

3314. Beach, F. A. "Angry" mosquitoes. *Science*, 1945, 101, 610-611.—Because the use of such a word as "angry" when applied to the behavior of organisms is anthropomorphic, non-explanatory, and often misleading, the author pleads that such usage be dropped. (See 19: 3328.)—F. A. Mote (Connecticut).

3315. Bitterman, M. E. Heart rate and frequency of blinking as indices of visual efficiency. *J. exp. Psychol.*, 1945, 35, 279-292.—Continuous electromyographic recordings of cardiac and eyelid activity were obtained while subjects performed visual tasks in 2 different experiments. In the first, 14 subjects in controlled order were given 2 periods of 15 minutes to work on the Minnesota Vocational Test for Clerical Workers in 10-point type and 2 equal periods on the same text in 6-point type. In the second experiment, 8 subjects read a book printed in 10-point type for 40 minutes on each of 2 succes-

sive days. Half of the subjects read under illumination of 3 foot-candles on the first day and of 91 on the second. The others read under the higher level first. In neither experiment do the results indicate that either heart rate or frequency of blinking is an adequate index of the ease of visual work. 41-item bibliography.—D. W. Taylor (Stanford).

3316. Bookwalter, K. W. Test manual for Indiana University motor fitness indices for high school and college age men. *Res. Quart. Amer. Ass. Hlth phys. Educ.*, 1943, 14, 356-365.—Motor fitness indices are used for the measurement of achievement of secondary school boys and college men in physical fitness programs including a wider range of activities than is included in the test itself. Four indices involving measures of strength and velocity, which are combined according to the power principle ($P = F \times V$), are available. Rules for administering and scoring the motor fitness index items are presented, along with temporary norms for college men.—M. Castaldi (Brown).

3317. Brace, D. K. Validity of football achievement tests as measures of motor learning and as a partial basis for the selection of players. *Res. Quart. Amer. Ass. Hlth phys. Educ.*, 1943, 14, 372-377.—The validity for football achievement tests, that is, proof of whether or not the tests can be used to measure real football ability, was studied statistically and practically. When football ability was measured by making the first "string," the tests were found to have high practical validity.—M. Castaldi (Brown).

3318. Bull, N. Towards a clarification of the concept of emotion. *Psychosom. Med.*, 1945, 7, 210-214.—In an attempt to remove much of the mystery of theory dealing with the body-mind relationship, the author suggests an explanation of a neuromuscular sequence in which emotion is expressed in two serial phases of motor attitude and action. Feeling belongs to an intermediate stage. This sequence explains the apparently divergent views of Darwin, James, and Dewey and offers a concrete basis for studying conflicting motor attitudes and the subsequent psychosomatic symptoms.—P. S. de Q. Cabot (United Drug, Inc.).

3319. Cagle, F. R. Home range, homing behavior, and migration in turtles. *Misc. Publ. Mus. Zool. Univ. Mich.*, 1944, No. 61. Pp. 38.—Field studies of 3 species of turtles (*Pseudemys scripta elegans*, *Crysemys picta*, and *Terrapene carolina*) indicate that small groups of individuals usually occupy a section of a lake or stream and, when removed as much as a mile away, often return to the same habitat. Each turtle appears to occupy a home area and to leave this region only during breeding or hibernating season or when bodies of water dry up. Seasonal movements away from the home range occur during early spring and late fall. There are no indications of aggressive protection of territory or of competition for mates during breeding season. Currently available population studies are of limited value because of the meager samples and small areas described. Valid conclusions are possible only when relatively large geographical areas are studied and the factors of population movement taken into consideration.

—F. A. Beach (American Museum of Natural History).

3320. Carpenter, A. Factors in motor educability. *Res. Quart. Amer. Ass. Hlth phys. Educ.*, 1943, 14, 366-371.—There are at least 3 factors in the total picture of motor educability as portrayed by the Johnson and Johnson type tests: (1) a factor representing a phase of body control in turns about a lateral axis, probably closely related to the functioning of the semi-circular canals, (2) a factor which is probably the ability to solve new motor skill coordination problems quickly, and (3) a complex factor to which no name has yet been assigned.—M. Castaldi (Brown).

3321. Dearborn, W. F., & Leverett, H. M. Visual defects and reading. *J. exp. Educ.*, 1945, 13, 111-124.—This is an attempt to co-ordinate the published information on the relationship of visual defects to reading. Lack of agreement in the literature is probably due to differences in samples of subjects studied, to varieties of methods employed, and to further differences in the functions measured, the measuring instruments used, and the criteria for distinguishing good vs. poor vision and good vs. poor reading. The authors emphasize the complexity of the factors involved in the reading process and warn against the assumption of cause because of concomitance. The clinical evaluation of visual defects in cases of reading disability is discussed. There is a bibliography of 55 titles.—E. B. Mallory (Wellesley).

3322. Elder, J. S. Thermocouples for temperature measurements on skin surfaces and in living tissue. *Onderstepoort J. vet. Sci.*, 1941, 17, 141-163.—See *Biol. Abstr.* 18: 12819.

3323. Fisher, M. B., Birren, J. E., & Leggett, A. L. Standardization of two tests of equilibrium: the railwalking test and the ataxiograph. *J. exp. Psychol.*, 1945, 35, 321-329.—The performance of 151 men in walking a rail one inch wide and 10 feet long was scored as the sum of the distances walked in 10 trials. The corrected odd-even reliability was .77, and the correlation between initial and retest scores for 78 of the men was .67. An increase of 78% occurred in the mean achievement of 18 men tested twice a day for 4 days. The anterior-posterior body sway of 133 men was measured first during a 2-minute trial with eyes open and then during a trial of equal length with eyes closed. A test of double length was also given. The corrected split-half reliability of the 4-minute test was .87; of the 8-minute test, .96. The initial and retest scores of 85 of the men correlated .87. Nineteen men tested 10 times over a one-month period showed little improvement. No significant correlation was found between the railwalking and ataxiograph scores of 43 men.—D. W. Taylor (Stanford).

3324. Gang, K. Psychosomatic factors in the control of pupillary movements. *J. clin. Psychopath. Psychother.*, 1945, 6, 461-472.—The researches of Westphal and Lowenstein are reviewed, with particular reference to the experimental elicitation of "transitory catatonic pupillary immobility" in schizophrenics. The necessity for an optimal balance of autonomic innervation justifies the po-

tentialities of psychotherapy.—P. S. de Q. Cabot (United Drug, Inc.).

3325. Griscom, L. *Modern bird study*. Cambridge, Mass.: Harvard University Press, 1945. Pp. x + 190. \$2.50.—The author has expanded 8 lectures given at the Lowell Institute into a general survey for the layman. Three topics are of interest to the psychologist: capacity and intelligence; adaptability; and migration. Rowan's theory of the determination of migration by temperature and light is critically discussed.—W. S. Hunter (Brown).

3326. Guthe, C. E. [Chm.] *Manual for the study of food habits*. *Bull. nat. Res. Coun., Wash.*, 1945, No. 111. Pp. 142.—This is a theoretical manual valuable to all doing research in social psychology, written primarily for those desiring a synthesis of existing knowledge relating to the science of food habits. Preliminary standards are established for the systematic collection of basic data on food habits, suggestions are given as to how the collection may proceed, the unit or subject of study is defined, and research results are considered as bases for social action. Food habits are discussed in terms of observational (cultural anthropology) and experimental (psychology) studies. 682-item bibliography.—R. W. Beebe (Child Study Center of Maryland).

3327. Hoffmann, P. *Allgemeine Physiologie der Reflexe*. (General physiology of reflexes.) *Fortschr. Neurol. Psychiat.*, 1941, 13, 331-363.

3328. Kahn, M. C., Celestin, W., & Offenhauser, W. Recording of sounds produced by certain disease-carrying mosquitoes. *Science*, 1945, 101, 335-336.—Experience obtained during work upon recording mosquito sounds enabled the authors to differentiate genus and sex. The variety of sounds indicates that they may be in the nature of warning calls, mating calls, or calls of anger and other sounds that are similarly functional. These sounds are usually in the range 250-1500 cycles per second. They seem to be produced by (1) noises made when in flight, (2) the beating of wings while at rest, (3) the rubbing of the tarsi against the wings, and (4) certain pure bird-like sounds the origin of which the authors have not been able to determine.—F. A. Mote (Connecticut).

3329. Kestenbaum, A. Psychosomatic factors in eye movements. *J. clin. Psychopath. Psychother.*, 1945, 6, 453-458.—The psychological factors affecting the nature and locus of attention are briefly surveyed. Aphasic patients are strongly attracted by the human face. The mimic features of the eyes reveal psychosomatic relationships which are particularly noticeable in the case of the phenomenon of *shine*. A brief reference is given to illustrate the mechanism of hysterical disturbance in eye motility.—P. S. de Q. Cabot (United Drug, Inc.).

3330. Knower, F. H. Studies in the symbolism of voice and action: V. The use of behavioral and tonal symbols as tests of speaking achievement. *J. appl. Psychol.*, 1945, 29, 229-235.—Subjects were asked to express 11 emotional states either by facial gestures or pantomime, or by tonal means. These poses were judged by a group of 14 persons as to where they fell in the original list of 11 items. The

judges' scoring of the performances by the use of what is termed a split-half index of the reliability gave reliability correlations for facial gestures of +.93, and +.87 for tonal expression. Correlation indices of validity are described as moderate to high.—H. Hill (Indiana).

3331. Langworthy, O. R. Behavior disturbances related to decomposition of reflex activity caused by cerebral injury; an experimental study of the cat. *J. Neuropath. exp. Neurol.*, 1944, 3, 87-100.—The behavior of cats was studied after removing the frontal poles of the cerebral cortex including the motor areas. Their behavior was characterized as more automatic, with marked overactivity and distractibility, poorly co-ordinated in eating activity, with increased emotional responses (especially to food and contact with other cats) and increased tonus. "These preparations show most of the abnormalities which Bard described after removal of all the neocortex and portions of the diencephalon. They do not exhibit sham rage."—T. G. Andrews (Chicago).

3332. Liberson, W. T. Problem of sleep and mental disease. *Inst. of Living*, 1945, No. 13, 93-108.—The author briefly reviews the evidence on selected theories of sleep and indicates that sleep disturbances may follow lesions to subcortical (ventricular) centers. The persistence of mental activity during sleep is so reminiscent of certain features of mental disease as to merit study. Hypnograms obtained by the EEG method indicate that the depth of sleep varies with the frequency and spatial distribution of organized electrical activity. The wide variety of "sleepy patterns" suggests that "sleep is not a uniform process" and that normally the "sleep-producing mechanism presumes a protective component" making for "biological seclusion." The EEG sleep-patterns are reported for a number of different syndromes.—L. A. Pennington (Illinois).

3333. Loftus, T. A., Gold, H., & Diethelm, O. Cardiac changes in the presence of intense emotion. *Amer. J. Psychiat.*, 1945, 101, 697-698.—Forty-one cases of personality disorders with intense emotional reactions were studied. Of this group, 2 were found who showed abnormal electrocardiographic changes accompanying their intense emotional states. Both cases showed no evidence of cardiovascular disease. The investigators state that, although they could not determine from their observation the conditions under which emotions might evoke electrocardiographic changes, the evidence points to the probability of such an influence.—R. D. Weitz (Jersey City, N. J.).

3334. Mann, C. W. The effect of thiouracil upon the heart rate, estrous cycle, and spontaneous activity of the white rat. *J. Psychol.*, 1945, 20, 91-99.—Eighteen young adult female rats were run in activity units, for 30 days on normal diet and for 30 days on a diet to which was added .1% thiouracil. . . . The results of adding .1% of thiouracil to the normal diet of the white rat are: (a) inhibition of growth rate as shown by body weight, (b) reduction of heart rate indicating an inhibition of thyroid function, (c) reduction of spontaneous activity, (d)

disruption of rhythmic pattern of activity, (e) increase in the length of periods between cornification of vaginal mucosa."—*R. B. Ammons* (Iowa).

3335. O'Neil, W. M. The status of instinct. *Aust. J. Psychol. Phil.*, 1944, 22, 154-169.—The general discrediting of the term instinct has led, especially in the United States, to a shelving of problems of behavior and motivation related to its former use. Review of numerous recent studies of animal behaviour suggests that while the doctrine of instinct "may have erred in an over-attribution of significance to hereditary conditions, it has been wrongly discounted by those who attribute the whole of behaviour to experience. A proper understanding of innate determination of motivation seems to wait upon a better understanding of what motivation is as distinct from the conditions under which it occurs."—*H. D. Spoerl* (Jeffersonville, Vt.).

3336. Phillips, M., Ridder, E., & Yeakel, H. Further data on the Pulse-Ratio Test. *Res. Quart. Amer. Ass. Hlth phys. Educ.*, 1943, 14, 425-429.—Although a high correlation had been obtained between Roger's Test of Physical Fitness and the Pulse-Ratio Test in another study, the present investigation found the reliability correlation for the Pulse-Ratio Test to be too low to make the test valuable for individual measurement of physical fitness. It was also noted that there is a definite tendency for individuals with low resting heart rates to have a high pulse ratio and those with high resting heart rates to have a low pulse ratio.—*M. Castaldi* (Brown).

3337. Rethlingshafer, D. Effect of various concomitant activities upon the maintenance of a set. *J. exp. Psychol.*, 1945, 35, 312-320.—Each of 43 subjects was instructed to react as quickly as possible to a buzzer and simultaneously to engage in a variety of other activities. The shortest mean reaction times were obtained when the subjects were given a warning signal, the foreperiod being about 1 sec. Omission of this signal resulted in an increase in mean reaction times, and a further increase resulted when the subjects engaged in a task having no goal. Still longer times were obtained during the memorizing of nonsense syllables, the learning of a stylus maze, the solution of two different puzzles and of an insight problem. The mean reaction time decreased as learning progressed both with the nonsense syllables and with the maze. Similar improvement occurred with progress in the solution of both puzzles and of the insight problem. Possible interpretations of the results in terms of the role of tension in the stream of behavior are suggested.—*D. W. Taylor* (Stanford).

3338. Rife, D. C. The dice of destiny; an introduction to human heredity and racial variations. Columbus, Ohio: Long's College Book Co., 1945. Pp. 163. \$1.75.—The author discusses selected topics in "politico-genetics," including twins, laterality, mental capacity, special abilities, personality, and race.—*W. S. Hunter* (Brown).

3339. Scott, M. G. Motor ability tests for college women. *Res. Quart. Amer. Ass. Hlth phys. Educ.*, 1943, 14, 402-405.—The obstacle race, a test of motor ability, was shortened and modified to

eliminate practically all sources of danger in administering the test. The shortened obstacle race may be combined in test batteries, and the results are almost identical to those of the longer race in measuring motor ability.—*M. Castaldi* (Brown).

3340. Sumner, F. B. A biologist reflects upon old age and death. *Sci. Mon.*, N. Y., 1945, 61, 143-149.—*E. Girden* (Brooklyn).

3341. Travis, R. C. Balancing skill as a measure of recovery from rotation. *Amer. J. Psychol.*, 1945, 58, 361-378.—A rotating stabilometer was developed for the purpose of measuring speed of adaptation to and recovery from the effects of bodily rotation. Three problems were investigated: (1) the relation between balancing skill (with visual cues) before and after rotation; (2) recovery from the rotation; and (3) the relation between the rate of recovery and the number of complete rotations. Subjects were 156 college men and women. The r between original balancing skill and recovery was +.52. Correlations of -.63 and -.83 were found between weight and stabilometer score, and correlations of -.42 and -.43 between weight and the recovery rate. Women recovered somewhat more rapidly than men; the CR of this difference was 1.7. Recovery rates varied inversely as the number of rotations to which the S was subjected.—*D. E. Johannsen* (Bellevue Hospital).

3342. Weil, A., & Groat, R. A. The effect of adrenalectomy upon the brain of white rats. *J. Neuropath. exp. Neurol.*, 1944, 3, 374-378.—"Adrenalectomy in male and female rats is followed by an increase in the weight of the brain. This increase in weight is due both to an increase in water and in other chemical compounds without any marked change in qualitative composition of the brain and the proportional distribution of the different compounds. In male rats, the testes and prostate glands are increased in weight. In both sexes the heart and thyroids increase in weight without any weight changes in the hypophysis."—*T. G. Andrews* (Chicago).

3343. West, C. C. Measurement of joint action. *Arch. phys. Med.*, 1945, 26, 414-425.

[See also abstracts 3259, 3266, 3274, 3279, 3280, 3286, 3353, 3357, 3361, 3405, 3425, 3427, 3443, 3447.]

PSYCHOANALYSIS, DREAMS, HYPNOSIS

3344. Foze, A. N. An approach to the psychology of indifference. *Psychoanal. Rev.*, 1945, 32, 296-299.—Indifference is a defense mechanism used to avoid the stress of life. It tends to be an ineffective one, since the individual underemphasizes the danger and threat involved in new situations.—*L. B. Heathers* (Washington).

3345. Lindner, R. M. Hypnoanalysis in a case of hysterical somnambulism. *Psychoanal. Rev.*, 1945, 32, 325-339.—"The case of M, an hysterical somnambulist, was presented to serve as a vehicle for discussing the technique of hypnoanalysis and to explore further the dynamics of hysteria in terms of symptom-formation and symptom-function. It has been shown wherein the basic phantasy in this

case was a triad of latent homosexuality, sadism and castration-anxiety composed pre-oedipally and transformed into symptom. The somnambulist symptom has been shown to function as a protective mechanism employed by the ego to escape the consequences of deeply entrenched id-urges and super-ego punitive demands. A further function of the symptom was the avoidance of and freedom from guilt. The method of hypnoanalysis, apart from its usefulness as a time-saver which radically shortens the treatment period, was especially helpful in achieving abreaction, since it entailed literal re-vivification."—*L. B. Heathers* (Washington).

3346. Loebowitz-Lennard, H. A psychoanalytic contribution to the problem of antisemitism. *Psychoanal. Rev.*, 1945, 32, 359-361.—"It is the purpose of this paper to show the same factors which are operative in the creation of 'Unlust' feelings in the child leading to hostility against the father as the basis of antisemitism. . . . The instinctual renunciation which mankind would have to undergo, or is in the process of undergoing by accepting the monotheistic God (super-ego God) is postulated as causing 'Unlust.' Contact with the historically known proponents of this faith—the Jews—leads to unconscious hostility towards them which can be converted into overt aggression if a rational (political, economic, social) basis is provided."—*L. B. Heathers* (Washington).

3347. Morel, F. L'hallucination est-elle accessible à notre connaissance? (Is hallucination accessible to our understanding?) *Encéphale*, 1939-1941, 34, 351-358.

3348. Röheim, G. Aphrodite, or the woman with a penis. *Psychoanal. Quart.*, 1945, 14, 350-390.—Various legends, items of folklore, and superstitions, together with some items of clinical material, are discussed psychoanalytically for sexual significances.—*M. H. Erickson* (Wayne County General Hospital).

3349. Rothenberg, S. Transference situations in an hour of analysis. *Psychoanal. Rev.*, 1945, 32, 340-352.—The varying attitudes of a patient towards his analyst are illustrated through the analysis of one hour's material.—*L. B. Heathers* (Washington).

3350. Sirna, A. A. An electroencephalographic study of the hypnotic dream. *J. Psychol.*, 1945, 20, 109-113.—"In an experiment designed to test the hypothesis that the hypnotically induced dream is not the same in cortical effect as the normal sleeping dream, the brain waves of 10 volunteer Harvard and Radcliffe students were recorded, during the waking state, during a suggested waking dream, during hypnosis, and during an hypnotically induced dream. The changes found during the above states show no significant trends, and a statistical analysis by means of Chi-square has shown no statistically significant variation in any one of the aforementioned states. This is the conclusion to be expected from a review of the literature showing that hypnosis and sleep are not physiologically the same."—*R. B. Ammons* (Iowa).

3351. Stekel, W. The interpretation of dreams; new developments and techniques. 2 vols. New York: Liveright, 1943. Pp. xi + 618. \$10.00.

3352. West, D. J. Fallacies in a criticism of ESP assessment. *J. Parapsychol.*, 1945, 9, 133-136.—The writer attempts to reconstruct Mulholland and Pitkin's experiment in which machine-matchings of numbered cards were alleged to have produced "extra-chance" results. An evaluation of the data fails to reveal any extra-chance effect.—*F. W. Finger* (Virginia).

3353. Zeller, M. The influence of hypnosis on passive transfer and skin tests. *Ann. Allergy*, 1944, 2, 515.

[See also abstracts 3234, 3297, 3366, 3379, 3424, 3458.]

FUNCTIONAL DISORDERS

3354. Adamson, G. L., & Bochner, A. A. K. Physical debility and emotional disorders. *J. canad. med. Serv.*, 1945, 2, 454-462.

3355. Aub, J. C. Neuro-endocrinological research news. *Inst. of Living*, 1945, No. 13, 31-38.—The thesis is developed that endocrine abnormalities do not directly induce a psychosis but may "accentuate the existing psychological pattern of the individual."—*L. A. Pennington* (Illinois).

3356. Bagchi, B. K., Howell, R. W., & Schmale, H. T. The electroencephalographic and clinical effects of electrically induced convulsions in the treatment of mental disorders. *Amer. J. Psychiat.*, 1945, 102, 49-60.

3357. Barahal, H. S. Is dementia praecox hereditary? *Psychiat. Quart.*, 1945, 19, 478-502.—The author reviews all important studies on the hereditary nature of dementia praecox, with emphasis on analysis of the statistical methods employed, and interprets these, as well as his own data, as supporting a genetic theory of the disease and especially the assumption of a recessive type of inheritance which he attributes to Kallmann. There is thought to be an irregular expression of the main gene concerned due to the modifying effects of both secondary genes and various environmental influences.—*E. B. Brody* (Yale).

3358. Bergler, E. A short genetic survey of psychic impotence. I. *Psychiat. Quart.*, 1945, 19, 412-437.—The first half of this paper concerns "terminology and the facts behind it" and discusses Freudian concepts as well as the author's own ideas of the factors that should be mentioned in the description of neurosis, with particular reference to what he terms "penis neurosis." Under the latter heading he subsumes all possible psychological difficulties connected with genital sexual function. Reich's concept of "orgastic potency" is briefly disposed of, largely on the basis of its generality. The second half of the paper presents specific questions regarding sexual behavior which the author asks during the first interview, with a discussion and interpretation of possible answers.—*E. B. Brody* (Yale).

3359. Bijou, S. W., & Werner, H. Language analysis in brain-injured and non-brain-injured mentally deficient children. *J. genet. Psychol.*, 1945, 66, 239-254.—"In order to study the problem as to whether or not retarded concept formation per se

is the major causal factor, verbal concepts given in response to a specially constructed vocabulary test were analyzed. The subjects consisted of 19 non-brain-injured (control group) and 19 brain-injured mentally deficient children matched on their Stanford-Binet MA's and IQ's. The definitions of the brain-injured children were found to be superior both qualitatively and quantitatively. The brain-injured subjects had a wider vocabulary range; they employed more advanced modes of expression, and they gave more detailed and complete meanings to the terms defined. Theoretical implications of the findings are discussed. It is contended that the disturbance in conceptual relationships as found in grouping and sorting tests was due not to an inferiority of the concept formation as such but rather was caused by dynamic factors of a presumably pathological origin.—R. B. Ammons (Iowa).

3360. Blain, D., Hoch, P., & Ryan, V. G. A course in psychological first aid and prevention. *Amer. J. Psychiat.*, 1945, 101, 629-634.—The authors recognize the need for a group approach to the problem of the marked increase in emotional maladjustment of the men in the American Merchant Marine. To meet this need, they outline a course of instruction in psychological first aid and prevention. Two basic factors are stressed in the course: (1) the prevention of maladjustments and neurotic symptoms and (2) the aiding of the individual in dealing with tensions and personal problems.—R. D. Weitz (Jersey City, N. J.).

3361. Brugger, C. L'hérédité de l'oligophrénie. (The inheritance of oligophrenia.) *Ann. méd.-psychol.*, 1942, 100, 313-322.

3362. Coriat, I. H. A psychoanalytic interpretation of the mental symptoms of paresis. *Psychoanal. Rev.*, 1945, 32, 253-262.—The mental symptoms of paresis are explained dynamically. As a consequence of organic brain damage, the ego's ability to repress and to utilize the reality principle is lost. Hence the narcissistic ego predominates, the patient's behavior is controlled by the pleasure principle, and the characteristic childish, deteriorated behavior and wish-fulfilling delusions result.—L. B. Heathers (Washington).

3363. Cowles, E. S. Don't be afraid! How to get rid of fear and fatigue. (Rev. ed.) Chicago: Wilcox & Follett, 1945. Pp. xv + 25. \$2.00.—See 16: 182.

3364. Davis, P. Psychological problems and the returning serviceman. *Train. Sch. Bull.*, 1945, 42, 69-72.—Providing the returning soldier with a warm, congenial, sympathetic atmosphere will demand of us emotional maturity and understanding of a high order. The vast majority (90%) will return strong and healthy in mind and body and will make their adjustments to civilian life rapidly. Medical discharges (5%) for physical disabilities require emotionally mature attitudes toward handicaps as well as medical attention. Suggestions for seeing the total personality and for planned desensitizing are given. Nervous cases (5%) present the hardest problem of all. These men need, and have a right to demand, public appreciation and acceptance of their difficulties.—S. Whiteside (Cincinnati Public Schools).

3365. Delay, J. Tic organique et tic mental. (Organic and mental tic.) *Ann. méd.-psychol.*, 1941, 99, 328-333.

3366. Erickson, M. H. Hypnotic techniques for the therapy of acute psychiatric disturbances in war. *Amer. J. Psychiat.*, 1945, 101, 668-672.—Hypnosis as a psychotherapeutic technique is discussed. The author suggests that it is advisable to give those who are to participate as subjects, an opportunity to discuss their attitudes, fears, misconceptions, etc. regarding hypnosis prior to the actual experience. He proposes that this be done by group lectures or individual discussion. Better co-operation between the patient and therapist is thereby attained. The value of the subject's active participation in the induction of the trance is also discussed. The author finally points out that his own experiences with hypnosis, as a therapeutic procedure, and the experiences of his associates serving in the armed forces suggest the more extensive utilization of the method in treating acute personality disturbances and other maladjustments.—R. D. Weitz (Jersey City, N. J.).

3367. Felix, R. H., Cameron, D. C., Bobbitt, J. M., & Newman, S. H. An integrated medico-psychological program at the United States Coast Guard Academy, preliminary report. *Amer. J. Psychiat.*, 1945, 101, 635-642.—The authors describe the medicopsychological program which they helped to develop at the United States Coast Guard Academy and summarize some of the research findings. The object of the program was threefold: (1) to develop techniques for screening out psychiatric misfits, (2) to give officer trainees better understanding of the principles of mental hygiene, and (3) to develop in line officers the skills necessary for the early detection of mental illness. Interviewing and aptitude testing were fundamental to the program. Research findings indicated that combined interview ratings and aptitude test results were highly significant in predicting the successful achievement of the trainees.—R. D. Weitz (Jersey City, N. J.).

3368. Foster, G. The psychotherapy of William James. *Psychoanal. Rev.*, 1945, 32, 300-318.—James's similarities to Jung and Freud are pointed out. It is noted that the main aspects of James's philosophy were developed from the solutions he found for his emotional problems when he was a young man. 52-item bibliography.—L. B. Heathers (Washington).

3369. Grinker, R. R., & Spiegel, J. P. Men under stress. Philadelphia: Blakiston, 1945. Pp. xii + 484. \$5.00.—This book summarizes the authors' observations on the psychiatric care and treatment of air crew personnel. The 5 sections of the book discuss the men, the environment of combat, reactions to combat, reactions after combat, and the application of these findings to civilian psychiatry. For the purpose of description and clarification of the psychodynamics involved, the neuroses are divided as follows: passive-dependent states, psychosomatic states, guilt and depression, aggressive and hostile reactions, and psychotic-like states. Problems of acute neuroses among combat personnel have made medical officers more generally aware of psychosomatic disorders and suggest

certain applications to fatigue, exhaustion and anxiety states among industrial workers. The success achieved in dealing with combat neuroses by means of narcosynthesis and rapid methods of psychotherapy indicates that, under certain circumstances, the duration of treatment of civilian neuroses may be shortened appreciably. The observation of acute war neuroses has also contributed to our knowledge of ego psychology and of the reactions of the ego to stress. Sixty-five case histories are cited to illustrate the types of neuroses encountered, the methods of treatment employed, and the success achieved.—A. Chapanis (U. S. Army Air Forces).

3370. Grinker, R. R., & Spiegel, J. P. War neuroses in flying personnel overseas and after return to the U.S.A. *Amer. J. Psychiat.*, 1945, 101, 619-624.—Air Force personnel showed no florid dramatic breakdowns or well-defined clinical syndromes in development of war neuroses. Their reactions were found to center on behavior changes and defects in flying ability. Two types of neurotic character susceptible to neurotic reactions of war are: (1) persons who have unconscious expectation of injury and who, as a result, have led passive, dependent, or sheltered lives and (2) those with rigid egos who are unable to tolerate free anxiety. The authors also discuss the universality of guilt reactions and the part that guilt plays in the development of neuroses, both overseas and after return of the men to home shores. They found that many patients get great relief through realization of the fact that their neurotic reactions have roots in precombat mental conflicts and are not solely based on their reactions to war.—R. D. Weitz (Jersey City, N. J.).

3371. Guiraud, P. Évolution de l'idée de démence. (Evolution of the concept of dementia.) *Ann. méd.-psychol.*, 1943, 101, 186-199.

3372. Halstead, W. C. A power factor (*P*) in general intelligence: the effect of brain injuries. *J. Psychol.*, 1945, 20, 57-64.—Over a period of 10 years, series of possible behavioral indicators of brain injury have been built up. A factor analysis study of 13 quantitative behavioral indicators was made, based on test data from 50 neuropsychiatric patients. In both orthogonal and oblique solutions, there appeared a factor in general intelligence with "biological validity," heavy loadings appearing in flicker fusion and dynamic visual field tests. "During the early formative stages of personality it is probable that the power factor (*P*) operates to more or less extent as an anti-neurotic factor in the growing child. And in the normal adult its presence in adequate strength is a necessary protection against neurotic resolution of conflict. For when the *P* factor is reduced by excessive physiological stresses of military combat, for example, the consequence for the normal adult is the 'combat neurosis' so commonly observed in the present war."—R. B. Ammons (Iowa).

3373. Haskell, R. H. The American movement in mental deficiency; an apostrophe to the memory of a noble American. *Amer. J. ment. Def.*, 1945, 49, 358-363.—A plea is made to the American Association on Mental Deficiency "to correct its shortcomings of

the past by the reprinting *in toto* for the meeting of 1948 of this most remarkable document in the whole world at that time in the entire field of Mental Hygiene, the, in England, 'oft quoted' but in America totally forgotten, Report of the Commissioners on Idiocy appointed to inquire into the condition of Idiots within the Commonwealth of Massachusetts as written for the Commissioners, by the man who aired the entire American movement in Mental Deficiency, Doctor Samuel Gridley Howe."—S. Whiteside (Cincinnati Public Schools).

3374. Heuyer, —, & Fouquet, —. Erotomanie; suite d'une observation. (Erotomania; results of an observation.) *Ann. méd.-psychol.*, 1941, 99, 111-122.

3375. Landis, C. Intellectual deterioration and disorganization. *Inst. of Living*, 1945, No. 13, 218-221.—Hughlings Jackson's observations on the process of devolution or undevelopment in psychopathological states help to make modern findings "more systematically comprehensible." Inasmuch as the complex mental functions are more affected than simple ones and inasmuch as different brain areas are unequally affected, Jackson's hypothesis of "positive and negative symptoms" assists the clinician in grasping the significance of differentially altered mental functions in cases of dementia. A brief evaluation of available instruments (Babcock, Shipley, etc.) used to study the nature and degree of deterioration is offered.—L. A. Pennington (Illinois).

3376. Lewinski, R. J. The psychometric pattern: II. Migraine. *Psychiat. Quart.*, 1945, 19, 368-376.—The data are results of Wechsler-Bellevue Adult Intelligence Scale examinations on 25 young adult males with migraine. While they are of doubtful statistical significance, subtest results (when compared with those seen in maladjusted individuals) suggest tendencies toward painstaking and meticulous effort and low social alertness. The relationship between the migraine syndrome and personality disorders is discussed.—E. B. Brody (Yale).

3377. Lhermitte, J., Robert, J. de, & Nemours-Auguste, —. La main fantôme; signal symptôme des crises d'angine de poitrine. (The phantom hand; symptomatic sign of attacks of angina pectoris.) *Rev. neurol.*, 1939-1940, 7, 558-56.

3378. Loeser, L. H. The sexual psychopath in the military service; a study of 270 cases. *Amer. J. Psychiat.*, 1945, 102, 92-101.—Sexual psychopaths were studied from the standpoint of age, race, environment, family status, occupations, intelligence, AGCT grouping, education, personality, marital status, conflict with the law, use of alcohol and narcotics, previous accidents and illness, venereal disease, job stability, masculine-feminine ratio, associated diseases, previous courts-martial, and army ratings. The author concludes that the problem of sexual psychopathy in military service is essentially that of homosexuality. He advocates that sodomy, per se, should not be a punishable offense, that all cases of homosexuality need not be discharged from service, and that draft deferment of the homosexual is not always advisable, inasmuch as a large number of true homosexuals have sufficient sexual restraint to enable them to adjust satisfactorily in military service.—R. D. Weitz (Jersey City, N. J.).

3379. Meyers, T. J. Hypnosis in the treatment of chronic alcoholism. *J. Amer. osteop. Ass.*, 1944, 44, 172-174.

3380. Mittelman, B., Weider, A., Brodman, K., Wechsler, D., & Wolff, H. G. Personality and psychosomatic disturbances in patients on medical and surgical wards: a survey of 450 admissions. *Psychosom. Med.*, 1945, 7, 220-223.—Four hundred fifty male patients, between the ages of 18 and 45, on medical and surgical wards were examined during one or more psychiatric interviews; 10% had severe or moderately severe personality disturbances, and 20% had mild personality neuroses. Trauma resulting from personality disturbances accounted for only 4%, while 37% of the disturbances were precipitated by, or were first becoming evident in association with, infection or trauma. Symptoms indicating difficulties arose in connection with threats to bodily safety, frustrations of dependency needs, "hostility, sexual problems, and the failure to live up to high standards of achievement." A conflict between group ideals and a desire for protection were emphasized by all patients, although in some cases the individual was aware of it and in others he was not. Diffuse hostility and a defiance of accepted social ideals were expressed in feelings of frustration and guilt.—P. S. de Q. Cabot (United Drug, Inc.).

3381. Montagu, M. F. A. Conditioning and reconditioning in the psychotherapeutic situation. *Amer. J. Psychol.*, 1945, 58, 391-392.—A theoretical analysis is presented of the manner in which psychotherapy may be conceived to work. The undesirable response is seen as a reaction which is conditioned to an original emotion. Therapy is conceived of as a reconditioning stimulus which leads to insight and hence to the disappearance of the reaction.—D. E. Johannsen (Bellevue Hospital).

3382. Myerson, A., & Neustadt, R. Essential male homosexuality and some results of treatment. *J. nerv. ment. Dis.*, 1945, 102, 194-196.—Abstract and discussion.

3383. Nowrey, J. E. A brief synopsis of mental deficiency. *Amer. J. ment. Def.*, 1945, 49, 319-357.—Asserting that the mental defective has been an ever-present factor almost as long as the race has existed, the writer traces the attitude toward and the treatment of mental deficiency by the ancient civilizations, in the middle ages, during the renaissance, and in the modern era. Certain definite policies of the American Association on Mental Deficiency are outlined.—S. Whiteside (Cincinnati Public Schools).

3384. Quercy, —, & Bayle, —. Les fondateurs de la doctrine française de l'aphasie; Bouillaud. (The founders of the French doctrine of aphasia; Bouillaud.) *Ann. méd.-psychol.*, 1941, 99, 209-223.

3385. Rheingold, H. L. Interpreting mental retardation to parents. *J. consult. Psychol.*, 1945, 9, 142-148.—The purpose of the initial interview should be to guide the parents toward an emotional acceptance of the child and his mental defect. This interview, to be successful, should resemble closely any other therapeutic interview in which the gaining of insight is the objective. A successful interpretive interview follows an orderly sequence; six steps,

progressive in nature, are defined and described.—S. G. Dulsky (Rochester, N. Y.).

3386. Roberts, A. D. Intelligence and performance test patterns among older mental defectives. *Amer. J. ment. Def.*, 1945, 49, 300-303.—The relationship between an intelligence quotient and a performance quotient has been found to be a useful tool in evaluating important aspects of human behavior. If the IQ-PQ pattern is going to be used in evaluating mentally defective patients for parole, a warning needs to be sounded concerning the PQ's of older patients. Thirty-six patients in an institution for mental defectives were tested with the Stanford-Binet L, Arthur Performance Scale, and Wechsler-Bellevue Intelligence tests. Of the 13 above 20 years of age, there was a statistically reliable means difference of 16.3 points between their Arthur PQ's and Wechsler-Bellevue nonverbal IQ's in favor of the latter. A difference of 4.7 points in the same direction for 23 patients below CA 20 was not statistically significant.—S. Whiteside (Cincinnati Public Schools).

3387. Roberts, A. D. Case history of a so-called idiot-savant. *J. genet. Psychol.*, 1945, 66, 259-265.—The case is reported "of a quadruplegic spastic whose pneumoencephalogram shows considerable deviation from the normal. He is unable to walk, talk, or care for his own needs. However, he shows the comprehension of a child between six and nine years of age and is able to communicate his ideas by answering questions. His outstanding ability, naming the day of the week of any date since 1915, definitely appears to depend upon eidetic imagery, and is not sufficiently superior to other abilities to warrant the use of the term idiot-savant."—R. B. Ammons (Iowa).

3388. Rome, H. P. Group psychotherapy. *Dis. nerv. Syst.*, 1945, 6, 237-241.—Group psychotherapy (as distinguished from therapy in a group) in a Navy organization may differ somewhat from the civilian analogue; but because of the greater similarity in the experiences of the men, the resulting modal personality of the patient-group may be clearly demarcated and progress readily noted. The patient comes to recognize that his behavior has been duplicated by many of his mates, and he evaluates his own symptoms against a coherent group. The adjustment values gained in this way are of even greater importance than the time saved by group psychotherapy. The Navy has found motion pictures, using characters with whom the patient can identify himself, to be of great value in this work.—C. E. Henry (U. S. Naval Reserve).

3389. Rottersman, W., & Goldstein, H. H. Group analysis utilizing the Harrower-Erickson (Rorschach) test. *Amer. J. Psychiat.*, 1945, 101, 501-503.—Harrower-Erickson test results are compared for two groups, one weighted with psychoneurotics, the other with psychopaths. The findings are compared by use of bar graphs. The authors recognize that their study is open to valid criticism because of the arbitrary method which they used in selecting and grouping the cases. The benefits in using the test in group and individual analysis are discussed.—R. D. Weits (Jersey City, N. J.).

3390. Roudinesco, —. *Recherches sur l'énurésie; fréquence de l'énurésie; rôle du milieu social et du sexe.* (Researches on enuresis; frequency of enuresis; the role of social environment and sex.) *Bull. Soc. méd. Hôp. Paris*, 1943, 59, 199 ff.

3391. Schwartz, L. A. Group psychotherapy in the war neuroses. *Amer. J. Psychiat.*, 1945, 101, 498-500.—The author discusses the symptomatology and other factors which are considered in the selection of patients for group psychotherapy, the methods employed in the treatment, and the advantages of the procedure. He recommends group psychotherapy as a practical method for the treatment of selected war neuroses cases, in that the treatment period is relatively short, it reduces the need of building tremendous Veterans Facilities, it requires fewer trained personnel, and it enables the patients to get back sooner to their homes and jobs.—R. D. Weiss (Jersey City, N. J.).

3392. Tendler, A. D. Significant features of disturbance in free association. *J. Psychol.*, 1945, 20, 65-89.—"The present paper is an attempt to develop a diagnostic free association test for the measurement of disturbance in association. Specific features studied were: tendency to respond by contrasts, by individual responses, by adjectives to noun stimuli, or vice versa, delays in time of response, and failure to recall original responses. Except for contrasts, all of these features were found to be indices of association pathology, positively intercorrelated but sufficiently low to be treated independently. Contrast response is negatively correlated with these features and constitutes an index of normality. A selection of 25 stimulus words which showed the highest potency for eliciting these features of associative pathology was made from the Kent and Rosanoff Free Association Test. This constituted the Revised Free Association Test. Application of the revised test to psychotics, psychoneurotics, and mixed conditions yielded data for analysis as to reliability, differential significance, and relation to general mental ability."—R. B. Ammons (Iowa).

3393. Thorne, F. C. Directive psychotherapy: III. The psychology of simple maladjustment. *J. clin. Psychol.*, 1945, 1, 228-240.—The general principles basic to popular psychology are outlined. Some of these emphasize the relation of minor defects in behavior to maladjustment. The author cites examples to illustrate how direct advice regarding small details of behavior aided general adjustment. Attention to these details is not considered a substitute for major psychotherapy.—L. B. Heathers (Washington).

3394. Wallin, J. E. W. The psychological aspects of the problem of vocational preparation and rehabilitation of mentally and physically handicapped civilians. *Amer. J. ment. Def.*, 1945, 49, 290-299.—The optimistic employment outlook for the handicapped, basic goals of the vocational rehabilitation program, and the psychological elements of the program of vocational rehabilitation and trait-measurement techniques are discussed. "Jobs exist that meet the needs of all kinds of abilities, disabilities, aptitudes, and capacity levels except the

lowest. . . . Obviously, large segments of the mentally retarded group are now entitled to the benefits of the vocational rehabilitation act; and there is no justification for restricting eligibility to strictly neuropsychiatric cases."—S. Whiteside (Cincinnati Public Schools).

3395. Weiss, E. El punto de vista psicossomático en la práctica médica. (The psychosomatic point of view in medical practice.) *Rev. Neuro-Psiquiat., Lima*, 1945, 8, 1-25.—Recent boasts, in medical circles, of studying the organism "as a whole" have tended to amount to mere verbal gesturing. Actually, the assumption that there must be an organic basis for all disease continues to dominate. The point of view of the concept of psychosomatic medicine would restore the slighted aspect of psychogenetic factors, bringing these at least into a coordinated relationship with the purely organic.—H. D. Spoerl (Jeffersonville, Vt.).

[See also abstracts 3244, 3247, 3250, 3257, 3285, 3298, 3332, 3345, 3399, 3403, 3410, 3413, 3418, 3441, 3457, 3482, 3487, 3501, 3502, 3507, 3515, 3518, 3519, 3528.]

PERSONALITY AND CHARACTER

3396. Ach, R. Über die Vorhersage von Wahlentscheidungen; ein experimenteller Beitrag zur Persönlichkeitsforschung. (Concerning the prediction of choice determination; an experimental contribution to personality research.) *Arch. ges. Psychol.*, 1944, 112, No. 1/2, 85-152.—The author continued experiments, begun by Narciss Ach, to find out if it is possible to predict the behavior of a person under certain conditions. First, the experimenter tried to learn the principal motives and other factors which influenced the behavior of persons under certain environmental conditions. After this "experimental psychoanalysis," the experimenter wrote down what kind of activity these persons would choose when given a choice of different opportunities. The persons were asked to make several objects to be chosen from daily life (e.g., bread, shoes, etc.), home furniture (chair, bench, etc.), means of transportation (ship, bus, etc.) and nature, using one of the following 4 methods (also freely chosen): arranging matches, kneading plasticine, pencil drawing, and a combination of using matches and kneading. Choice was predicted in 135 cases out of 181. This total result includes 58 correct and only 5 wrong predictions obtained on the last day of the experiment, when the motives and other decisive factors were better known to the author than was true earlier. The subjects were not informed about the purpose of the experiment.—H. A. Winsor (New York City).

3397. Andre-Thomas, —. À propos de l'image de notre corps. (Concerning the body image.) *Ann. méd.-psychol.*, 1942, 100, 60-63.

3398. Bergler, E. The "leading" and "misleading" basic identifications. *Psychoanal. Rev.*, 1945, 32, 263-295.—The author discusses the concept of identification and distinguishes two types of identifications. "Leading" identifications occur after the child has solved certain infantile conflicts; to counter-

act guilt feelings but to maintain his conflict solution, he identifies with someone who appears to do the forbidden act. Since guilt continues, he then makes new, opposing, "misleading" identifications in order to deny his original conflict-solution. The conflicts and consequent identifications common at different developmental levels are described.—*L. B. Heathers* (Washington).

3399. *Challman, R. C.* The validity of the Harrower-Erickson Multiple Choice Test as a screening device. *J. Psychol.*, 1945, 20, 41-48.—One hundred fifty hospital employees and 100 patients took the Harrower-Erickson Multiple Choice Test. Answers were scored using (1) the number of first choice abnormal plus alternate responses, (2) the number of first choice abnormal plus abnormal alternate responses, and (3) the total weighted scores for first and second choices, giving abnormal alternates a weight of 1, divided by the total number of responses. These methods classed from 61 to 69% of the patients and 23 to 39% of the employees as abnormal; 16 to 17% of 77 student nurses given the test obtained scores of 4 or more abnormal responses. As various other scoring procedures failed to decrease appreciably the number of false positives and negatives, it is concluded that these are probably due to imperfections in the test itself.—*R. B. Ammons* (Iowa).

3400. *Child, I. L.* Personal adjustment of the disabled veteran. *Ann. Amer. Acad. polit. soc. Sci.*, 1945, 239, 135-143.—After the initial realization of loss has been adjusted to, several areas of frustration remain: interference with internal comfort, with ability to deal with the physical environment, with social interaction, and with self-esteem. Readjustment may involve aggression, a lowered level of aspiration, or persistence and variability of behavior. Understanding of readjustment is aided by knowing the general principles of learning and the techniques of psychotherapy.—*S. S. Sargent* (Barnard).

3401. *Dyer, D. T.* Are only children different? *J. educ. Psychol.*, 1945, 36, 297-302.—The subjects of this experiment were college women in freshman classes. Of these, 100 only children were paired with 100 non-only children in respect to chronological age and for socioeconomic background as indicated by educational and occupational levels of parents, home locality, and high school activities. No significant differences were found between only and non-only children when tested on the Bell Adjustment Inventory or when their records for academic standing were compared.—*E. B. Mallory* (Wellesley).

3402. *Frank, L. K.* Personalities for social progress. *J. educ. Sociol.*, 1945, 19, 31-35.

3403. *Greenspan, H., & Campbell, J. D.* The homosexual as a personality type. *Amer. J. Psychiat.*, 1945, 101, 682-689.—The authors undertake to clarify the confusion of viewpoints regarding the homosexual personality. They contend that "the homosexual is an exclusive personality type, clearly different from the psychiatric disorders under which it has been catalogued, and should be designated as such." They disagree with the contentions that homosexuality may be acquired and indicate that

they believe it to be a congenital anomaly rather than a disease. The writers believe that "physical and psychic manifestations are characteristic of the invert" and present evidence in favor of the biological theory of homosexuality. They state, too, that "emotionally the invert is very similar to the average woman." In conclusion, the authors characterize the homosexual as one who is a sexual anomaly but who is otherwise a normal, productive personality.—*R. D. Weitz* (Jersey City, N. J.).

3404. *Krüger, H.* Wilhelm von Humboldts Charakterschilderungen im Rahmen seiner Persönlichkeitsforschung. (Wilhelm von Humboldt's character descriptions in his study of personality.) *Z. angew. Psychol.*, 1944, 66, No. 1/2, 42-103.—The author believes that Humboldt, who lived in the 18th century, is the founder of scientific characterology. Humboldt devoted almost 10 years of his earlier life to methodical observations in this field. He wrote character descriptions in his travel diaries which were, however, not published until 1916. A more systematic treatise on the theory of knowledge of human nature was begun but was not finished because of his increased activity in public life. In his characterological diagnosis, Humboldt used methods which have been revived in our time, stressing the diagnosis of the whole personality.—*H. A. Winzer* (New York City).

3405. *Kuhlen, R. G.* Age differences in personality during adult years. *Psychol. Bull.*, 1945, 42, 333-358.—The present review is concerned with the changes beyond the age of 20 in interests, aversions, attitudes, opinions, personality, adjustment, motivations, aspirations, and life philosophy. A bibliography of 135 items is included.—*S. Ross* (U. S. Naval Reserve).

3406. *Laird, D. A., & Laird, E. C.* The technique of personal analysis; tested ways for fitting your personality to a future. New York: Whittlesey House, McGraw-Hill, 1945. Pp. x + 408. \$3.00.—This is an attempt to show people how they can improve and "cash in" on their personalities. The volume is based on the premise that "most personality traits are acquired and very few are unchangeable." Eleven chapters, each usually followed by a series of related axioms for improving the personality, comprise the first section. Eleven additional chapters, comprised of questions and answers taken from Laird's round-table discussions with business and educational groups, complete the book.—*J. A. Gottschalk* (Nat. Metal Trades Ass.).

3407. *Lhermitte, J.* De l'image corporelle. (The body image.) *Ann. méd.-psychol.*, 1942, 100, 63-65.

3408. *Marshall, S. E.* Solving individual problems of adjustment. *J. educ. Sociol.*, 1945, 19, 36-39.

3409. *Maslow, P.* Rorschach psychology. Brooklyn: Brooklyn College Press, 1945. Pp. 149. \$2.50.—Proceeding from the assumption that the reader is familiar with Rorschach test materials, administration, scoring and conventional interpretation, the author devotes 42 short chapters to a description and analysis of Rorschach responses, personality characteristics and dynamics, types of personality maladjustments, relation of the individual to society and culture, social and individual therapy, the in-

dividual and social responsibilities of the Rorschach practitioner, social planning and other related topics. Numerous additions to Rorschach theory are presented. These have not been scientifically validated but are supported by the convergence of inference and are advanced because of the author's "satisfaction with the results to date." There is a general bibliography of 104 titles.—E. M. L. Burchard (U. S. Naval Reserve).

3410. Schmidt, H. O. Test profiles as a diagnostic aid: the Rorschach. *J. clin. Psychol.*, 1945, 1, 222-227.—"The purpose of this paper has been to present some empirical clinical observations of the Rorschach as to diagnostic group profiles. To effect objective comparison, T-scores were produced based on a normal group of 64 white enlisted members of the Air Force. The deviate cases consisted of 168 enlisted white members of the Air Force who had been referred because of difficulty in adjusting to the Army situation. All diagnoses were made by qualified neuropsychiatrists employing techniques in common use, and without prior review of the protocols. Both graphic and statistical differentiations were observed in many instances between the normal and deviate groups, and between deviate groups; although because of the sparsity of cases in several of the clinical groups, these differences must be accepted cautiously." All the clinical groups were below the average group in Z and FY; the interpretation of the latter finding is difficult.—L. B. Heathers (Washington).

3411. Seibert, E. W. An evaluation of the Johnson Temperament Analysis. *J. clin. Psychol.*, 1945, 1, 193-195.—The Johnson Temperament Analysis was given to 154 women entering Green Mountain Junior College. Over a hundred of these students attended psychology classes in which their test results were presented to them and discussed; 21 of the 36 students, rated maladjusted on the scale, had individual conferences with the psychologist. In all cases, the psychologist judged that the test rating of maladjustment was clinically verified.—L. B. Heathers (Washington).

3412. Swift, J. W. Relation of behavioral and Rorschach measures of insecurity in preschool children. *J. clin. Psychol.*, 1945, 1, 196-205.—"The present study was designed to investigate the relationship between a single personality variable, viz., insecurity as measured by the Rorschach Method and behavior considered clinically to be symptomatic of it. Fifty preschool children ranging in age from 4-0 to 6-0 were used as subjects. Data concerning the Rorschach measure of insecurity were obtained from two sources: 1) ratings of insecurity made by an experienced Rorschach interpreter on the basis of two complete Rorschach records of each child, and 2) quantitative analysis of the Rorschach records in terms of eleven 'signs' of insecurity or maladjustment. Data concerning behavior were collected by means of 1) a teacher rating scale covering 15 items of school behavior, and 2) a parent interview, concerned with nine items of home behavior. The results indicate that there is no direct relationship between the amount of insecurity measured by the Rorschach and the behavior variables which were included in the present study as

symptomatic of insecurity. More hopeful data with regard to validation of the Rorschach's measures of insecurity were found when situational or stimulus factors were used as criteria."—L. B. Heathers (Washington).

3413. Werner, H. Rorschach method applied to two clinical groups of mental defectives. *Amer. J. ment. Def.*, 1945, 49, 304-306.—Two groups of mentally deficient children, brain-injured and non-brain-injured cases, matched as to chronological and mental age, were observed for characteristic responses on the Rorschach inkblots. Responses to extremely small details, such as little specks and almost invisible parts of a contour, were practically absent with the brain-injured group, whereas 17% of all the responses of the familial group were of this type. Brain-injured children gave significantly more responses based on the selection of white instead of colored and black spaces. They also reacted much more strongly to color than the familial and saw significantly more often human figures. Children of the familial type saw more frequently animal forms. The brain-injured children gave a considerable number of responses based on far-fetched, and even bizarre, interpretations.—S. Whiteside (Cincinnati Public Schools).

[See also abstracts 3344, 3380, 3389, 3440, 3526, 3527, 3536, 3537.]

GENERAL SOCIAL PROCESSES

(incl. Aesthetics)

3414. Allport, G. W. Human nature and the peace. *Psychol. Bull.*, 1945, 42, 376-378.—The full text of a statement signed by 2,038 American psychologists is presented. This statement was released to the press on April 5, 1945, and is printed in the recent yearbook of the SPSSI, *Human Nature and Enduring Peace* (see 19: 3438).—S. Ross (U. S. Naval Reserve).

3415. Baldwin, A. L., Kalhorn, J., & Breese, F. H. Patterns of parent behavior. *Psychol. Monogr.*, 1945, 58, No. 3. Pp. iii + 75.—By a judicious use of clinical and statistical methods, a "syndrome analysis" was made of parent behavior ratings (Champney scales) of 125 families. "The three central syndromes revealed . . . were labelled, *Democracy in the Home, Acceptance of Child, and Indulgence*." These are patterns of variables, reflecting deeper attitudes or traits. Any home may rate high or low on a syndrome, or the syndrome may be irrelevant to that home. All syndromes are positively correlated with each other, especially at the negative end of the scale (since "there are fewer ways to reject children than there are ways to accept them"). Seven common patterns of parent behavior are described in detail with illustrative case material: Acceptant-Democratic; Acceptant-Democratic-Indulgent; Indulgent; Casual Indulgent; Casual Autocratic; Nonchalant Rejectant; Active Rejectant. Thus "a framework for the more complete understanding of parent behavior has been laid." In addition an analysis is offered of democracy in the home. Two prerequisites are maturity of the emotional relations in the home and the use of democratic

methods of dealing with children. Subcultural, especially rural, patterns of parent behavior are analyzed.—*L. J. Stone* (U. S. Public Health Service Reserve).

3416. Bolton, E. B., & English, M. Further study of attitudes of high school seniors toward problems of the war and the peace. *J. Psychol.*, 1945, 20, 157-182.—A group of 49 Georgia high school senior girls were given a series of attitude and morale scales, interviews, and questionnaires to fill out. The considerable body of information thus obtained was analyzed as to: family background, ability, achievement, and interests of the students; their sources of information about problems of the war and peace; their attitudes toward patriotism and the U. S. Constitution; their attitudes toward our allies; their attitudes toward the enemy nations; and their attitudes toward postwar problems.—*R. B. Ammons* (Iowa).

3417. Cameron, N. The socially maladjusted veteran. *Ann. Amer. Acad. polit. soc. Sci.*, 1945, 39, 29-37.—A minority of veterans readjust with difficulty to civilian life. Their wives and families have changed; the members of each group must learn to live together again. If unmarried, they find it difficult to live as before with parents and siblings. "To his own people, the returned veteran may seem all but unintelligible." His community seems unfriendly; resentment grows. He has to relearn the art of self-direction. Old problems, postponed during military service, reappear. Military and civilian groups and veterans' organizations can aid in the process of mutual readaptation.—*S. S. Sargent* (Barnard).

3418. Carlton, T., & Carlton, L. E. Errors in the oral language of mentally defective adolescents and normal elementary school children. *J. genet. Psychol.*, 1945, 66, 183-220.—Groups of 72 and 61 institutionalized mental defectives were matched with normal school children of CA's 8 to 10 for MA, sex, and socioeconomic status. Stenographic reports were obtained of each child's verbal responses to a series of picture stories shown in a peep-show apparatus. Forty-two separate oral errors were carefully defined and identified in the first 60 clauses each subject articulated. Mental defectives made significantly more errors than their matched normal groups. A tendency appeared for all subjects with higher MA's to make relatively more errors, but of different types. In the mentally defective group, males made more errors; in the normal group, females made more errors. Exhaustive analysis is presented of the errors made by different groupings of subjects, and implications for educators are pointed out. Certain trends in errors since 1909 are noted.—*R. B. Ammons* (Iowa).

3419. Carter, H. Recent American studies in attitudes toward war; a summary and evaluation. *Amer. sociol. Rev.*, 1945, 10, 343-352.—Studies on attitude toward war, most of which appeared since 1931, are reviewed. The major findings are briefly outlined. In the discussion of these findings, criticism of the most frequently used scales (which were developed by the Thurstone method) is developed as to their nonlinearity and as to the importance of

the judges' attitudes. Bibliography of 58 titles.—*C. N. Cofer* (U. S. Naval Reserve).

3420. Dahlke, H. O. Values and group behavior in two camps for conscientious objectors. *Amer. J. Sociol.*, 1945, 51, 22-33.—Social action based on values considered absolute is analyzed by the use of data from two conscientious-objector camps and the religious agency which administered them. The conditions of the social action consist of the value-orientation of the religious agency and of the government, the work programs, and the material milieu of the camps. These conditions interacted with the diverse and, in part, contrary value-orientations of the individual conscientious objectors. In this process, special social roles and contending interest groups developed. In addition to this unstable social structure, a general pattern of adjustment is discernible, presenting various degrees of accommodation, assimilation, and conflict.—*D. L. Glick* (Arlington, Va.).

3421. Davis, A. Caste, economy, and violence. *Amer. J. Sociol.*, 1945, 51, 7-15.—Caste in the Deep South integrates into one system all aspects of white-Negro behavior: social, sexual, economic, political, educational, religious, legal, associational, and recreational. The only institution which is not completely organized on caste lines is the economic. Whenever Negroes as a group achieve economic mobility, they meet with severe punishment from the whites. Thus conflict and violence indicate that Negroes are beginning to compete more effectively with whites.—*D. L. Glick* (Arlington, Va.).

3422. Davis, K., & Moore, W. E. Some principles of stratification. *Amer. sociol. Rev.*, 1945, 10, 242-249.—"In the present paper a further step in stratification theory is undertaken—an attempt to show the relationship between stratification and the rest of the social order. Starting from the proposition that no society is 'classless,' or unstratified, an effort is made to explain, in functional terms, the universal necessity which calls forth stratification in any social system. Next, an attempt is made to explain the roughly uniform distribution of prestige as between the major types of positions in every society. Since, however, there occur between one society and another great differences in the degree and kind of stratification, some attention is also given to the varieties of social inequality and the variable factors that give rise to them."—*C. N. Cofer* (U. S. Naval Reserve).

3423. Doblin, E. M., & Pohly, C. The social composition of the Nazi leadership. *Amer. J. Sociol.*, 1945, 51, 42-49.—The Reichstag under Hitler comprised the leaders in the Nazi fight for power during the twenties. Statistical analysis of the group shows that they were comparatively young, mostly veterans of World War I, and frequently members of the Black Reichswehr thereafter. The majority were born in medium-sized cities, mainly in southern and western Germany, had a moderate education, and came from the ranks of white-collar workers, artisans, and intellectuals.—*D. L. Glick* (Arlington, Va.).

3424. Engle, B. S. Lemnos, island of women. *Psychoanal. Rev.*, 1945, 32, 353-358.—The story of

Lemnos is applied to modern wartime conditions in which women are obliged to assume many masculine functions. It is possible that such women will lose their femininity by coming to feel themselves independent of the male.—*L. B. Heathers* (Washington).

3425. Ferguson, L. W. Analysis of sex temperaments in terms of Thurstone-type attitude items. *J. genet. Psychol.*, 1945, 66, 233-238.—Analysis is made of the responses of groups of 192 to 300 college men and women to Thurstone-type attitude items in the "primary social attitude" areas of religionism, humanitarianism, and nationalism. Men made lower religious scores, which might be due to a greater positive belief in evolutionary doctrine than to a lesser belief in God. Women as a group were more humanitarian than men, more pacifistic, less in favor of capital punishment, and less in favor of harsh treatment of criminals. Women tended to be more favorable toward censorship, to have a greater respect for law, and to be less favorable toward communism. These results seem to agree essentially with similar studies using the Allport-Vernon Scale of Values, Strong's Vocational Interest Test, and Terman and Miles' Attitude-Interest Analysis Test.—*R. B. Ammons* (Iowa).

3426. Firey, W. Sentiment and symbolism as ecological variables. *Amer. sociol. Rev.*, 1945, 10, 140-148.—The maintenance of Beacon Hill as an upper-class neighborhood, the difference in emigration rates from Boston's North End for American and Italian-born residents, and the resistance to commercial usage of areas such as Boston Common and the colonial burying grounds require an ecological explanation in other than economic terms. It is felt that the symbolic and sentimental values of these areas are responsible for their preservation.—*C. N. Cofer* (U. S. Naval Reserve).

3427. French, J. R. P. Organized and unorganized groups under fear and frustration. *Univ. Ia Stud. Child Welf.*, 1944, 20, No. 409, 229-308.—Sixteen groups, composed of college students and of members of a neighborhood house, were exposed to experimental conditions of frustration produced by the attempt to solve objectively insoluble problems and to a fear situation produced by suffusing the locked room with smoke in simulation of a fire. The groups showed large differences in the strength of frustration and great differences in behavior, and there were differences between organized and unorganized groups. Evidence was presented which tends to support the Yale theory of frustration and aggression. A topological interpretation, involving somewhat different definitions and propositions, seemed to account for some of the experimental facts more adequately. On the basis of the topological interpretation, a number of revisions in the definitions and propositions of the Yale theory were suggested. Most important, the experimental evidence indicates a need for further qualification of the basic postulate that frustration or conflict always produces an instigation to some form of aggression. In the fear situation produced by suffusing the locked room with smoke in simulation of a fire, the reactions of the group varied from skepticism

to panic. The organized groups showed more fear than the unorganized groups.—*B. Wellman* (Iowa).

3428. Kalhorn, J. Values and sources of authority among rural children. *Univ. Ia Stud. Child Welf.*, 1944, 20, No. 409, 99-151.—The home culture of Mennonite children as compared with non-Mennonite children in the rural areas of Iowa was studied by means of a test developed by Bavelas. This test attempts to modify the attitude scale in the direction of a projective technique and gives greater freedom of choice. In addition, it attempts to reach both the values of a culture and the surrogates for those values. Some of the values mentioned by the groups were equally strong in the two cultures while others were weighted very differently. The general picture of the Mennonite culture, as represented by the findings on this test, seems to be one in which a strong moral connotation is attached to almost every area of activity and in which authority is vested chiefly in the parents or in God. The non-Mennonite children stressed personal interaction on a matter-of-fact level. Although parents were the surrogates most emphasized by these children, society at large and other children were also mentioned as sources of authority for approved and disapproved activities.—*B. Wellman* (Iowa).

3429. Katz, O., & Eisenberg, P. Showmanship in radio educational programs. *J. Psychol.*, 1945, 20, 135-145.—"The Lazarsfeld-Stanton Program Analyzer technique has been applied to educational radio programs to determine how these programs can be improved. It was found that listeners do not reject educational programs as such but prefer them to be entertaining. In addition, listeners are probably likely to understand material better and to retain it longer when it is presented in an entertaining form." Major clues as to how to apply showmanship to educational programs were obtained from further analysis of the same data, which indicated that educational programs should have unity, should be related to everyday problems, should offer opportunities for listener involvement, and should stress human interest material.—*R. B. Ammons* (Iowa).

3430. Lazarsfeld, P. F., & Franzen, R. H. Prediction of political behavior in America. *Amer. sociol. Rev.*, 1945, 10, 261-273.—Studies on pre-election voting intention and postelection reports of voting behavior in the same respondents are reviewed. Little effective change occurs between these sets of measurements. Various correlates of voting behavior are discussed, and a rationale for the ecological study of election returns is developed. An example is analyzed to show sampling methods and problems in this field. In an appendix by W. S. Robinson, factor analysis of political behavior is discussed, and a rotated matrix of Gosnell's is reanalyzed.—*C. N. Cofer* (U. S. Naval Reserve).

3431. Lentz, T. F. Opinion change in time of war. *J. Psychol.*, 1945, 20, 147-156.—"A six-year retest study of reactions of 100 younger adults to items bearing on peace and war and upon internationalism and race relations shows net changes ranging from 0 to 56 per cent per item. These changes are pronounced and unmistakably in the direction of the use of armed force as a method of international relation and national security." There is little

change in attitude toward democratic international co-operation. Large opinion changes are probably evidence of inaccuracy of opinion measurement. Changes in opinion seem to be orderly and gradual, and understandable.—*R. B. Ammons* (Iowa).

3432. Lewin, K. *Constructs in psychology and psychological ecology.* *Univ. Ia Stud. Child Welf.*, 1944, 20, No. 409, 1-29.—This paper discusses some conceptual problems of psychology, the general state of group and leadership problems, problems of psychological ecology, and finally, the way in which science and "life" are fused in this field. A major difficulty in setting up worthwhile experiments in a new field is the inability to formulate intelligently and adequately experimental and theoretical questions. An investigation into the conceptual types is one of the most helpful first steps toward the formulation of such questions. The general situation in regard to psychological theorizing and the development of concepts about group life and ideology is now in a state similar to that of problems of motivation 15 years ago. Some aspects of a field theoretical approach to the problems of psychological ecology are illustrated by a study of changes in food habits. Studies of group dynamics can, if properly handled, provide answers to theoretical problems and at the same time strengthen the rational approach to practical social problems.—*B. Wellman* (Iowa).

3433. Lewin, K., Meyers, C. E., Kalhorn, J., Farber, M. L., & French, J. R. P. *Authority and frustration; studies in topological and vector psychology. III.* *Univ. Ia Stud. Child Welf.*, 1944, 20, No. 409. Pp. vii + 308.—See 19: 3427, 3428, 3432, 3452, 3531.

3434. Lindeman, E. C. *Community programs for social adjustment.* *Ann. Amer. Acad. polit. soc. Sci.*, 1945, 239, 144-149.—In the building of mutual adjustment between the returning veteran and his community, concerted action on the part of the community is essential. Greatest needs are information, counseling, professional service, education, recreation and sociability, and friendship. Such services should be provided, not only for veterans, but for the community as a whole.—*S. S. Sargent* (Barnard).

3435. Moreno, J. L. *Mental catharsis and the psychodrama.* *Psychodrama Monogr.*, 1944, No. 6, 209-244.

3436. Moreno, J. L., & Jennings, H. L. *Sociometric measurement of social configurations based on deviation from chance.* *Sociometry Monogr.*, 1945, No. 3. Pp. 35.—See 12: 6023.

3437. Mowrer, E. R., & Mowrer, H. R. *The disabled veteran in the family.* *Ann. Amer. Acad. polit. soc. Sci.*, 1945, 239, 150-159.—The major points of tension are discussed. The authors suggest that the family clinician and professional counselor can aid greatly in the process of reorienting the veteran in his family.—*S. S. Sargent* (Barnard).

3438. Murphy, G. [Ed.] *Human nature and enduring peace; third yearbook of the Society for the Psychological Study of Social Issues.* New York: Houghton Mifflin, 1945. Pp. xi + 475. \$3.50.—The aim of this third yearbook of the

Society for the Psychological Study of Social Issues is to tell what the psychological approach to post-war problems can contribute to the maintenance of peace. Toward this end, the editor formulated a number of important questions which he submitted to persons working in psychology or related fields. The replies obtained from a total of 53 specialists make up the major part of the book. After an introductory discussion by the editor of the causes of war, various authors analyze major postwar problems including a discussion of Germany and Japan and of other trouble spots, the failure of education, the future of fascism, the dangers of half-way measures and of relapse into old habits. A positive program is then outlined. Attention is given in turn to the need for world-minded education, the practicality of democracy, the role of the churches, the necessity for democracy in race and sex, the contributions of public opinion analysis to democracy, and finally to the need for a "moral equivalent of war." In the final section of the book, the editor integrates the material presented in the earlier sections and ends with a discussion of the Psychologists' Manifesto.—*D. W. Taylor* (Stanford).

3439. Nettler, G. *A test for the sociology of knowledge.* *Amer. sociol. Rev.*, 1945, 10, 393-399.—One hundred fifty persons with established reputations in each of 10 occupations were asked to predict how certain war, political, and economic events would turn out; 388 replies were received, distributed unevenly among the occupational groups. On all but one of the predictions, the 10 occupational samples behaved similarly. In the one prediction in which group disparities appeared (the prediction of who would be elected president in 1944), the prediction pattern may be "corroborative of the hypothesis of 'social position' as determinant of knowledge." In general, however, it is felt "that there is no simple social position that conditions all knowledge."—*C. N. Cofer* (U. S. Naval Reserve).

3440. Raines, G. N., & Broomhead, E. *Rorschach studies on combat fatigue.* *Dis. nerv. Syst.*, 1945, 6, 250-256.—Twenty-five Navy enlisted men, who had been in a combat fatigue status for at least several months, were given Rorschach and intelligence tests on admission to the sick list; 13 of these were retested on return to duty. While all cases showed reduced performance on the reversed digits test, there were no characteristic Rorschach findings. Rough grouping of the combat fatigue syndrome showed groups dominated by anxiety, anxiety and depression, and anxiety plus evidence of neuroses. "Retesting supports the clinical experience that men may perform military duty without being entirely recovered from combat fatigue."—*C. E. Henry* (U. S. Naval Reserve).

3441. Rossettie, T. M., & Strauss, A. A. *Disciplinary procedures as conceived by boys in a self-determining group.* *Amer. J. ment. Def.*, 1945, 49, 307-315.—The effectiveness of group pressure has been demonstrated in a cottage in which group autonomy was introduced for mentally retarded boys within the Wayne County Training School. All matters of discipline and cottage operation are left to the group itself, though the administration retains the power of veto in case the broader aims of the

institution should be lost sight of in any specific case. These boys were interviewed to determine which one of 28 statements of misdemeanors they considered as most serious. A similar method was employed for evaluation of privileges. Responses indicated that the group as a whole has responded satisfactorily to the privileges granted with the goal of self-determination in mind.—S. Whiteside (Cincinnati Public Schools).

3442. Siegel, B. J. Some methodological consideration for a comparative study of slavery. *Amer. Anthropol.*, 1945, 47, 357-393.—F. Fearing (California).

3443. Simmons, L. W. A prospectus for field-research in the position and treatment of the aged in primitive and other societies. *Amer. Anthropol.*, 1945, 47, 433-439.—The lack of studies of old age in primitive societies is noted. The more recent studies tend to stop with adult life. Old age, however, is one of the crucial stages in the life cycle for the study of social and cultural impacts upon interpersonal relations. The author suggests the types of data which should be collected in field studies. These include an estimate of the incidence of aged men and women in the population, the extent of old-age dependency, cases of extreme longevity, conceptualizations regarding old age, stereotyped jokes and puns, special prerogatives, concrete activities permissible to the aged, and attitudes of the aged to the onset of senescence. Many clues regarding the study of the aged may be obtained from recent cultural studies of infancy and childhood. There is no substitute for the life-history method in these fields.—F. Fearing (California).

3444. Steiner, J. F. Japanese attitudes and problems of peace. *Amer. sociol. Rev.*, 1945, 10, 288-294.—Japanese attitudes toward divinity of the Emperor, democratic forms of government, war and militarism, suicide and death are discussed.—C. N. Cofer (U. S. Naval Reserve).

3445. Voelker, P. H. The use of a rating scale as a technique for evaluating the growth of certain social habits and attitudes in mentally defective children in the public school system. *Amer. J. ment. Def.*, 1945, 49, 316-318.—A combination of the graphic and descriptive type of rating scale is used by the teacher for rating each child in the classes for mentally retarded children in the Detroit School System. Such traits as sociability, participation in class activities, consideration for others, tenacity of purpose, trustworthiness, and reaction to authority are included.—S. Whiteside (Cincinnati Public Schools).

3446. Warner, W. L., & Srole, L. The social systems of American ethnic groups. New Haven: Yale University Press, 1945. Pp. xii + 318. \$4.00.—The authors report on the history and present status of the eight nationality minorities of "Yankee City." Indices of residential and occupational status have been determined for each group for successive periods since arrival; both indices show a steady rise with time. Indices of social class status could be directly determined only for the time of the study; the relation of this index to time since first migration (for the several groups) and to the

generation of the individual (within each group) points to a steady rise here, too. This quantitative analysis is supplemented by a qualitative treatment which is then extended to the special topics of the family, church, language, school, and associations. Throughout this section of the book, the conceptualization and the interpretation are that of the two preceding volumes of the Yankee City Series (see 16: 3714, 3715). A final chapter discusses the general position of ethnic groups in American society. Through a classification of ethnic groups according to degree of racial and cultural divergence from the old American norm, and the generalization that racial divergence is of primary importance in this country, differential predictions are made about the degree of subordination, strength of cultural subsystem, time for assimilation, and ultimate position in American society, for each ethnic group.—I. L. Child (Yale).

3447. White, L. A. "Diffusion vs. evolution": an anti-evolutionist fallacy. *Amer. Anthropol.*, 1945, 47, 339-357.—"Certainly one of the dominant notes in ethnological theory during recent decades has been that of anti-evolutionism. . . . The repudiation and rejection of evolutionism has been one of the principal theoretical contributions of the Boas School. One of the most potent weapons in the anti-evolutionist's arsenal has long been the argument that diffusion negates evolution. This argument is, as we have demonstrated, fallacious. It rests upon an error of logic: the confusion of things that are different and distinct—the evolution of culture and the culture history of peoples. With the exposure of this error the principal support of the anti-evolutionist position is removed." The author speculates on the growth and perpetuation of scientific error. He suggests that this occurs mainly through graduate students who are taught erroneous doctrines and who, in turn, teach new generations of students.—F. Fearing (California).

3448. Wolff, K. H. A methodological note on the empirical establishment of culture patterns. *Amer. sociol. Rev.*, 1945, 10, 176-184.—Two types of approach to the study of culture, the objective (or natural science approach) and the cultural, are contrasted. The characteristics of the latter method are further explicated.—C. N. Cofer (U. S. Naval Reserve).

[See also abstracts 3230, 3291, 3346, 3390, 3400, 3402, 3452, 3453, 3455, 3483, 3486, 3501, 3524.]

CRIME AND DELINQUENCY

3449. Almaraz, J. La conducta criminal y la inhibición. (Criminal conduct and inhibition.) *Previs. soc., Méx.*, 1943, 1, No. 2, 25-31.

3450. Arguelles, B. La delincuencia de los adultos y los menores en el D. F. (Delinquency of adults and minors in the Federal District.) *Previs. soc., Méx.*, 1943, 1, 3; *passim*.

3451. Arguelles, B. El sexo y la ocupación en relación con la delincuencia. (Sex and occupation in relation to delinquency.) *Previs. soc., Méx.*, 1943, 1, No. 3, 45-47.

3452. Farber, M. L. Suffering and time perspective of the prisoner. *Univ. Ia Stud. Child Welf.*, 1944, 20, No. 409, 153-227.—This study, carried out at the Iowa State Penitentiary, is concerned with the main determinants of the attitudes and behavior of prisoners. A semifree interview technique built around some 100 standard questions was used. Forty interviews were obtained. The interviews were rated, usually on a 5-point scale, on 29 items. Correlational techniques showed 5 factors to be significantly related to the degree of suffering of a prisoner: feeling of injustice of sentence ($r = .57$), feeling of injustice of length of time served (.66), hope of getting a break ($-.40$), unfriendliness of the outside as seen (.45), and indefiniteness of knowledge as to when he will get out (.51). Neither length of sentence nor length of time served was related to suffering. Escapes were found to be perpetrated under conditions of low expectation of getting out soon and low timidity ratings. The multiple correlation for these two factors was .76. Prison behavior appears to be dominated by the need to get out and the perceived paths towards this goal. Factors in the immediate day-to-day situation, despite continued exposure to them, are not of importance.—B. Wellman (Iowa).
3453. Gonzalez Tejeda, J. La importancia del trabajo social en la prevención y represión de la delincuencia. (The importance of social work in the prevention and repression of delinquency.) *Previs. soc., Méx.*, 1943, 1, 31-34.
3454. Greco, M. C. Clinical psychology and penal discipline. *J. clin. Psychol.*, 1945, 1, 206-213.—The inadequacy and the backwardness with which disciplinary problems are handled in correctional institutions are noted. The author suggests that the use of nondirective therapy by a skilled therapist would eliminate many disciplinary problems and would aid the inmate to objectify his feelings and to develop self-control.—L. B. Heathers (Washington).
3455. Guttmacher, M. S., & Stewart, F. A. A psychiatric study of absence without leave. *Amer. J. Psychiat.*, 1945, 102, 74-81.—Data are presented for 133 cases of absence without leave (AWOL) and are compared with the findings of a matched group comprised of men who had not shown behavior problems and a group of maladjusted who had not shown the tendency to go AWOL. Twenty-six conclusions are drawn indicating an over-all social maladjustment on the part of the AWOL group with respect to their intelligence, job stability, education, emotional stability, personal habits, etc. Methods for dealing with the various types of AWOL problems are discussed.—R. D. Weitz (Jersey City, N. J.).
3456. Kvaraceus, W. C. Prenatal and early developmental history of 136 delinquents. *J. genet. Psychol.*, 1945, 66, 267-271.—Analysis was made of the records of 133 delinquents handled at the Passaic Children's Bureau over a period of 5 years as to planned or accidental birth; health of mother during pregnancy; ease of delivery; birth weight; feeding; age of teething, weaning, sitting, and talking. "We find several possible sources of severe frustration and conflict which center around the unplanned and probably unwanted births, children arriving in difficult and unfavorable households, and the late and irregular and, in all likelihood, abrupt weaning. In other measures of growth the delinquent group, on the average, appeared to approach the norms for the general population, except in the matter of birth weight."—R. B. Ammons (Iowa).
3457. Mandell, S. The orientation of individual psychology as applied to the reading of a case study in criminal psychopathology. *Indiv. Psychol. Bull.*, 1945, 4, 104-109.
3458. Raskovsky, R. El parricidio. (Parricide.) *Arch. Med. leg., B. Aires*, 1945, 15, 115-141.—The development of the Freudian conception of the Oedipus complex is reviewed in the light of parricide in mythology and in primitive and ancient societies. Legal norms are discussed, and recent cases are summarized that seem to suggest the Freudian point of view.—H. D. Spoerl (Jeffersonville, Vt.).
3459. Schneider, A. J. N., & La Grone, C. W., Jr. Delinquents in the army; a statistical study of 500 rehabilitation center prisoners. *Amer. J. Psychiat.*, 1945, 102, 82-91.—This is a preliminary report of a statistical study of 500 soldiers whose delinquencies resulted in their being sentenced to army rehabilitation centers. The investigators studied the prisoners from the standpoint of their military adjustment, civilian delinquencies, family background, education and vocational background, social background and psychiatric findings. Several selective factors were found to be operative in the development of the soldiers' maladjustments. The authors list 17 conclusions which point out the inadequacies and maldevelopments in the lives of the subjects studied.—R. D. Weitz (Jersey City, N. J.).
3460. Shulman, H. M. Delinquency treatment in the controlled activity group. *Amer. sociol. Rev.*, 1945, 10, 405-414.—The study herein described was an attempt to treat behavior problem children by a new method, i.e., in activity groups which also contained normal children, in which membership was voluntary and which were not known as treatment groups or in other ways differentiated from other recreational groups. The methodology of the experiment is described in some detail. The groups contained males aged 10.5 to 14.5 years, and matching procedures were used to equate the subgroups. Data from tests and other measures and case histories are given. Various measures of treatment outcome were employed, and treated cases showed behavioral improvement in school and at home: "the treatment program appeared to release tensions and aggressions, to replace delinquent patterns by patterns of emotional instability, and to modify personality disorders."—C. N. Cofer (U. S. Naval Reserve).
3461. Solis Quiroga, R. Los grandes problemas de la infancia y de la adolescencia y la profilaxis de la delincuencia juvenil. (The main problems of infancy and adolescence and the prophylaxis of juvenile delinquency.) *Previs. soc., Méx.*, 1943, 1, No. 2, 15; No. 3, 9.
3462. Sutherland, E. H. Is "white collar crime" crime? *Amer. sociol. Rev.*, 1945, 10, 132-139.—Court and commission decisions against the 70

largest industrial and mercantile corporations in the United States were analyzed to obtain evidence as to the prevalence of white-collar crime. Laws relating to false advertising, National Labor Relations, infringements of patents, etc., and the anti-trust laws were in question; 547 adverse decisions were made, 9% by criminal courts. Analysis of the 4 laws in terms of two criteria of crime revealed that 473 of the 547 decisions made under the laws against the corporations were decisions that crimes had been committed. Three reasons are developed to explain why the criminality in the behavior of these corporations "was not made obvious by the conventional procedures of the criminal law but was blurred and concealed by special procedures."—C. N. Cofer (U. S. Naval Reserve).

INDUSTRIAL AND PERSONNEL PROBLEMS

3463. Driver, R. S. Employee performance evaluation. *Person. Ser. Amer. Mgmt. Ass.*, 1945, No. 93, 16-23.—Improvement in the validity of performance evaluation based on judgment can result from placing the control of evaluation procedure in the hands of line organization, and by training supervision to do the rating. Data are given showing improvement in validity resulting from training of supervisory raters. Such proposed solutions are based on the assumption that an adequate rating form is available. A conference discussion follows.—J. A. Gottschalk (Nat. Metal Trades Ass.).

3464. Feinberg, R. Illumination and vision conservation in industry. *Optom. Wkly*, 1945, 36, 718-719; 733.—D. J. Shaad (Kansas City, Kans.).

3465. Fischer, G. H., & Lottmann, W. Mensch—bild, Auslese und Erziehung—Zur Methodik im beruflichen Ausleselager. (Personality, selection, and education; methods of vocational selection camps.) *Z. pädag. Psychol.*, 1943, 44, No. 5, 85-93.—The authors describe methods which are used in the metal industry for the selection of able young workers. The diagnosis is carried out in camps close to an industrial plant, where the candidates stay for several days in community life. Experts on metal industry, physicians, and psychologists form the staff. The candidates are divided into groups of 12 men, each group having a leader who lives with them. The different phases of the diagnostic process are: (1) lectures on metal industry (in order to give basic knowledge which is required for later tests); (2) visits to a plant, followed by discussion; (3) presentation of biographical motion pictures, followed by a diagnostic discussion; (4) technical jobs to be carried out co-operatively by a small group of three men; (5) round-table discussion among the testees; (6) written composition; and (7) an explorative interview between testers and individual candidates. Results are rated in 5 categories.—H. A. Winsor (New York City).

3466. Harrell, T. W. Aviation psychology in the Army Air Forces. *Psychol. Bull.*, 1945, 42, 386-389.—An outline is presented of some studies and applications of aviation psychology in the Army Air Forces. This work is independent of the program

of the Psychological Branch, Research Division, Air Surgeon's Office.—S. Ross (U. S. Naval Reserve).

3467. Harvey, V. K., & Luongo, E. P. Physical impairment and job performance; a comparative study of accident experience, production efficiency, sick absenteeism and turnover among 2,858 physically impaired and 5,523 able-bodied workers in government industry. *J. Amer. med. Ass.*, 1945, 127, 902-907.—D. Schneider (Wisconsin).

3468. Hawk, W. A. The psychiatric aspects of officer selection. *Amer. J. Psychiat.*, 1945, 101, 655-660.—The role of the psychiatrist in selecting officer candidates for training is discussed. The psychiatrist is responsible for evaluating potential student officers on the basis of intelligence, stability, and leadership. His final decision of the men is based on information gained through a psychiatric questionnaire, a clinical interview, regimental documents, records and reports, tests of intelligence and personality, and field tests covering ingenuity, group leadership, etc. Three criteria of validity of this method of officer selection are established: (1) training center results, (2) practical application when placed in charge of a group of men, and (3) action when exposed to actual warfare. Information is available only with regard to the training center results. Here it is seen that less than 5% of the men selected failed to make the grade. The author feels certain that the men selected by this method stand up well with respect to leadership under actual war stress.—R. D. Weitz (Jersey City, N. J.).

3469. Heneman, H. G., Jr. Results of personnel work. *Person. J.*, 1945, 24, 101-107.—Although industrial personnel administration is considered an applied science, it has not often used scientific methods in the evaluation of its results. Personal opinions of department heads have usually been used in judging the success of personnel departments. Scientific methods employing simple arithmetic, statistics, or especially cost accounting should be used, however, if personnel administration is to be effective in such functions as reducing unit labor costs and reducing strife between labor and management.—M. B. Mitchell (Veterans Advisement Unit, C. C. N. Y.).

3470. Jones, A. J. Preparation for personnel workers. *Rev. educ. Res.*, 1945, 15, 185-190.—Ten references on this subject in the current literature are reviewed.—L. Adams (Barnard).

3471. Lauer, A. R. Psycho-optometry. *Optom. Wkly*, 1945, 36, 657; 664.—The author discusses the personality traits which contribute to the successful practice of optometry.—D. J. Shaad (Kansas City, Kans.).

3472. Lawe, F. W. Staff management. London: Institute of Labour Management, 1944. Pp. 28. 1s.—The Institute of Labour Management is an association of personnel specialists organized to promote the development of personnel management, or staff management, in Great Britain. This monograph is one of a series of broadsheets dealing with personnel problems. It is intended primarily for those interested in the management of non-manual workers, but it is applicable more generally. The principles and practices of progressive personnel

management in the usual areas of hiring, terminating, wage administration, promotions, discipline, management-labor councils, training, services and safety are described, together with observations on necessary reports, the personality and status of the staff manager, and the outlook for the future. The functions of the staff-management department are outlined in the appendix.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

3473. **McMurry, R. N., & Johnson, D. L.** Development of instruments for selecting and placing factory employees. *Advanc. Management*, 1945, 10, 113-120.—Results are reported of a follow-up study of selection and placement of 769 employees in an ordnance company. During the selection process the following tests were administered: Wonderlic Personnel, K-M Army Beta, Thurstone Identical Forms, Bennett Mechanical Comprehension, and Minnesota Rate of Manipulation. A patterned interview was used to appraise such traits as stability, industry, ability to get along with others, self-reliance, willingness to accept responsibility, and freedom from emotional immaturity. The value of the tests as placement tools was checked against success on-the-job ratings of 587 employees who had left the company. The following figures give the significant validity for 3 different groups of workers on the Identical Forms test: .66 (140 assemblymen); .71 (69 inspectors); and .64 (97 welders). The significant validity for the Mechanical Comprehension test was .66 (140 welders). No significant value was gained from the Personnel test, and the Kellogg-Morton revision of Army Beta added no value to the results from the Thurstone Identical Forms test.—*H. Moore* (Stevenson & Kellogg, Toronto).

3474. **Maxcy, E. C.** Advances in training in personnel procedures. *Person. Ser. Amer. Mgmt. Ass.*, 1945, No. 93, 24-30.—One method of alleviating some of the complexity of personnel administration is through the development of organizational thinking and understanding by teaching line organization something about its personnel job. Seven major areas are listed for training, of which two are discussed: (1) an understanding of applied psychology and sociology as they relate to the understanding of individuals and the understanding of group situations and (2) an understanding of the case method approach to personnel problems.—*J. A. Gottschalk* (Nat. Metal Trades Ass.).

3475. **Staff, Separation Counseling Subsection, Classification and Replacement Branch, The Adjutant General's Office.** Army separation classification and counseling: I. Objectives and developments. *Psychol. Bull.*, 1945, 42, 379-385.—*S. Ross* (U. S. Naval Reserve).

3476. **Wermel, M. T., & Gelbaum, S.** Work and retirement in old age. *Amer. J. Sociol.*, 1945, 51, 16-21.—Current proposals and plans to encourage or force old people to retire from their jobs in the postwar period are a threat to their best interests. Medical, psychological, and sociological research indicates that, for those who are able and eager to work, idleness may result in serious personality disintegration. Public measures, such as old age clinics and government subsidized workshops and self-help co-operatives, would provide employment

adapted to their diminishing capacities and help them retain some degree of economic independence.—*D. L. Glick* (Arlington, Va.).

3477. **Woodward, P.** The relative effectiveness of various combinations of appeal in presenting a new food: soya. *Amer. J. Psychol.*, 1945, 58, 301-323.—The present study undertook to determine experimentally the effectiveness of various appeals in increasing the acceptability of soy bean products as food. Five kinds of soy bean dishes were presented systematically for a 6-week period at 6 cafeterias (4 experimental, 2 control) in the Pentagon Building, Washington, D. C. The appeals used were: nutritional value, an American food, good buy for the money, and variety of uses. Four different combinations of these appeals were presented by standardized posters. Records were kept for 2 hours per day during the experimental period. Approximately 1000 customers, 66% of whom were women, were observed daily in each cafeteria. The obtained differences varied in their reliability, but certain trends were clear: (1) Without posters, the label 'soy' produced a decrease in the selection of the food; women were more affected than men. (2) The posters which made no mention of nutritional value but used all of the other 3 appeals were most effective. (3) The nutritional appeal alone was the least effective.—*D. E. Johannsen* (Bellevue Hospital).

3478. **Zerga, J. E.** Personnel and job analysis data. *Person. J.*, 1945, 24, 114-118.—Personnel records and job descriptions are necessary prerequisites of employee selection. During wartime, the urgency of getting the employee on the job frequently resulted in very meager personnel records. Good personnel records and job analyses can be used to keep unemployment at a minimum during reconversion of industry to peacetime production and to keep down employee-management problems.—*M. B. Mitchell* (Veterans Advisement Unit, C. C. N. Y.).

[See also abstracts 3275, 3394, 3406, 3488, 3489, 3499.]

EDUCATIONAL PSYCHOLOGY

(incl. Vocational Guidance)

3479. **Anderson, G. V., Shartle, C. L., McCain, J. A., & Woolf, M. D.** Appraisal of the individual. *Rev. educ. Res.*, 1945, 15, 138-154.—One hundred nine references are listed dealing with work on the predictive value of intelligence tests, personality tests, interviews, etc. in education and in the armed services, civil service, and industry.—*L. Adams* (Barnard).

3480. **Anderson, H. H., & Brewer, H. M.** Studies of teachers' classroom personalities, I. Dominative and socially integrative behavior of kindergarten teachers. *Appl. Psychol. Monogr.*, 1945, No. 6. Pp. 157.—Dominative and socially integrative behavior of kindergarten children and of their teachers were measured, using procedures previously employed at the preschool level. From a methodological standpoint, (1) the two types of behavior are definable, as regards child-child, child-teacher, teacher-child, and teacher-teacher relationships, and

(2) the behavior types can be reliably observed—.85 to .93 reliabilities for dominative contacts and .74 to .81 for integrative contacts. Mental hygiene implications lie in these findings; teachers reinforced rather than compensated for each other in contacts with a child; there was no evidence of consistency between teachers in their use of integrative contacts with individual children; the proportion of integrative group contacts was uniformly low; frequencies for group domination were higher in the afternoon than in the morning; teachers more consistently used dominative contacts; there was a greater tendency to dominate boys; there was no tendency for a dominating child to receive integrative contacts initiated by the teachers; and individual children may live in vastly different psychological environments in the same classroom. A subsequent monograph will present a similar study at the elementary level.—*T. E. Newland* (U. S. Naval Reserve).

3481. Baker, E. V. *Children's questions and their implications for planning the curriculum*. New York: Bureau of Publications, Teachers College, 1945. Pp. x + 172. \$2.35.—In the belief that schools will best satisfy "mind hunger" and provide the most valuable form of education by providing information in the areas of knowledge about which children express curiosity, the author collected 9,280 questions from 1,402 children in grades 3-6 in 16 cities. The questions were analyzed by content and the implications of the results considered. Nearly 50% of the questions concerned the area of social studies; about 8%, current events; nearly 38%, scientific information; and less than 4% concerned the local communities. The author concludes that graduates of a teachers college should possess a rich background in social studies and in the biological sciences. Schools should stimulate the pupils' interest in their immediate surroundings and in the current problems of their own communities.—*E. B. Mallory* (Wellesley).

3482. Bixler, R. H., & Bixler, V. H. *Clinical counseling in vocational guidance*. *J. clin. Psychol.*, 1945, 1, 186-192.—The vocational counselor needs training in clinical psychology as well as in statistics and testing. The application of nondirective therapy to the vocational situation is discussed and illustrated.—*L. B. Heathers* (Washington).

3483. Bollinger, R. V. *The social impact of the teacher on the pupil*. *J. exp. Educ.*, 1945, 13, 153-173.—Both teachers and pupils in 3 high schools were given Wood's Right Conduct Test and Washburne's Social Adjustment Inventory. The teachers took, in addition, Bell's Adjustment Inventory and a questionnaire regarding attitudes and habitual behavior, devised by the author. The students were given an attitude questionnaire devised for them, together with Symond's "What Kind of a Year are You Having" blank and Remmers' Scale of Measuring Attitude toward Any Teacher, and were rated on Jones's Observation Scale for Rating Citizenship at School. No significant relationships were found between the social attitudes of the teachers and changes in the pupils' social attitudes.—*E. B. Mallory* (Wellesley).

3484. Brookover, W. B. *The relation of social factors to teaching ability*. *J. exp. Educ.*, 1945, 13,

191-205.—Questionnaires elicited information regarding students' and administrators' impressions of teachers in their schools, and facts regarding the teachers' social attitudes and relationships and their participation in community life were ascertained through interviews with the teachers themselves. Material so gathered was correlated with the teachers' professional efficiency, as measured by pupil gains in standardized history tests over a 10-week period. In general, popular and genial teachers taught less effectively, according to this criterion, than those who were thought peculiar, but pupils expressed respect for the academic ability of those under whom they made higher gains. The ratings of pupils and administrators showed considerable agreement but evidenced little relationship to the teachers' effectiveness. Most of the social factors usually thought important seem to be unrelated to teaching ability.—*E. B. Mallory* (Wellesley).

3485. Brooks, F. D., & Heston, J. C. *The validity of items in a study habits inventory*. *J. educ. Psychol.*, 1945, 36, 257-270.—Of items previously used in other study-habits questionnaires, 75 were selected and given to 276 college students above the freshman level. The interrelationships of study-habits scores, American Council on Education Test records, and grade-point ratios were studied by the method of contrasted high- and low-score groups and by correlation. Validity, interpreted as the tendency of a study-habits item to distinguish students with higher grades from those with lower grades, was greater for some items than for others, but it reached a figure of statistical significance in only a few cases. It was found that the number of "good" study habits was not significantly related either to intelligence, as measured by the ACE Test, or to average college grades.—*E. B. Mallory* (Wellesley).

3486. Cook, L. A. *An experimental sociographic study of a stratified 10th grade class*. *Amer. sociol. Rev.*, 1945, 10, 250-261.—A 10th-grade social studies class, consisting of 44 pupils, was the group employed in this study. The friendship structure (sociogram) of the group was measured during each semester and was fairly stable. Relationships between this aspect of group structure and data on social class of the children are drawn. During the first semester of the next year, individual guidance with 15 selected children was carried out, and some changes were noted in the group's sociogram for that term. In the second semester, group activities were encouraged, and the sociogram for this semester showed marked change. There were factionalization and increased social interaction. In general, all of the sociograms showed the upper-class children to have been over chosen.—*C. N. Cafer* (U. S. Naval Reserve).

3487. French, E. *The construction of knowledge tests in selected professional courses in physical education*. *Res. Quart. Amer. Ass. Hlth phys. Educ.*, 1943, 14, 406-424.—Knowledge tests were constructed to serve as a partial determiner of the technique requirements for women students majoring in physical education at the State University of Iowa. The tests appear adequate for determining which entering students possess knowledge equi-

valent to that possessed by students who have had their training at this university. 54-item bibliography.—*M. Castaldi* (Brown).

3488. Hahn, M. E., & Brayfield, A. H. *Job exploration workbook for occupational laboratory students*. Chicago: Science Research Associates, 1945. Pp. 96. \$0.96.—Designed to help high school and college students collect information about themselves and about job opportunities as a basis for their own vocational choices, this classroom workbook is organized as a series of projects, and a separate teachers' manual contains information on how to conduct these projects for the class as a whole (see 19: 3489). The projects include a vocational autobiography; survey of former students' jobs; survey of job opportunities and employment practices; intensive study of an occupation and study of training opportunities; rating scale for job fitness, job satisfaction and job campaign; personal data blank and letter of application preparation; filling out application blanks; evaluating employment agencies; and conducting employment interviews.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

3489. Hahn, M. E., & Brayfield, A. H. *Occupational laboratory manual for teachers and counselors*. Chicago: Science Research Associates, 1945. Pp. 29. \$1.00.—This manual and its companion student workbook (see 19: 3488) outline a program of educational and vocational counseling and group instruction in occupational information. The program is based on an experimental course conducted at the University of Minnesota, but the materials are also useful at the high school and junior college level. The manual is divided into 3 sections that deal with the plan and operation of the Occupational Laboratory and with standard material on counseling tools and techniques.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

3490. Harvard Committee. *General education in a free society*. Cambridge, Mass.: Harvard University, 1945. Pp. 286. \$2.00.

3491. Harvey, L. C. *The mental hygiene of higher learning as the student sees it*. *Purdue Univ. Stud. higher Educ.*, 1945, 53. Pp. 71.—A questionnaire scale of 113 items, designed to measure the working "knowledge of principles of mental hygiene" and "attitude toward certain everyday life situations arising in ordinary college life," was submitted to 1,558 students in 10 universities. Items were selected upon evaluation by 9 experts in mental hygiene fields. Thirteen hypotheses concerning mental hygiene attitudes were tested. Among the findings are the following: psychology students score higher than business curriculum students, women score significantly higher than men, and scores vary significantly from college to college. Among factors showing no relationship to scores on the scale were: death of parents, broken homes, number of siblings, comfort level of the home, size of high school attended, and type of college residence. Several social implications of the study are discussed.—*D. T. Herman* (Indiana).

3492. Hawkes, H. E., & Hawkes, A. L. R. *Through a dean's open door; a guide for students, parents, and counselors*. New York: McGraw-Hill,

1945. Pp. xv + 242. \$2.50.—The problems of college students are outlined "from the nontechnical, nonpathological point of view, with particular emphasis on the average student." The volume is intended for prospective college candidates and their parents, as well as for personnel officers and college administrators. Practically all phases of college procedures are discussed, and many interesting case studies are presented to bring home the points the authors have in mind.—*L. Long* (City College of New York).

3493. Hoppock, R., Pendergast, K., & Rosso, E. *Best books of 1944 on occupational information and guidance*. New York: Occupational Index, Inc., 1945. Pp. 6. 25c.

3494. Hult, E. *Study of achievement in educational psychology*. *J. exp. Educ.*, 1945, 13, 174-190.—From the records of 176 students in education courses at the University of Wisconsin, the author studied the relationships between success in teaching, as indicated by combined ratings of their actual teaching practice, and a variety of test scores and other marks ordinarily thought to have predictive value. There was some correlation between the success criterion and total university grade-point score, but with other scores very little or no relationship was found.—*E. B. Mallory* (Wellesley).

3495. Hutcherson, G. E. [Dir.] *Practical handbook for counselors*. Chicago: Science Research Associates, 1945. Pp. 160. \$1.50.—This book was developed by the New York State Counselors Association to assist the counselors in secondary schools. It deals with all problems involved in counseling and includes a list of basic books, pamphlets, and periodicals in the field of guidance and a list of training sources that offer preparation in their respective vocational fields.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

3496. Jones, A. J. *Principles of guidance*. (3rd ed.) New York: McGraw-Hill, 1945. Pp. xx + 592. \$3.50.—The purpose of this text has remained unchanged through 3 editions, but the third edition has been largely rewritten. Many changes in the organization of the material have been made. New chapters have been added: guidance of negro youth, preparation and certification of the school counselor, and impact of the war on guidance. In the chapter on preparation and certification, the author brings together the recommendations made by many committees that have studied this problem. Some of the most pressing problems arising from the world conflict are discussed, and attempts to forecast some of the changes in guidance that will take place after the war are made.—*L. Long* (City College of New York).

3497. Jones, V. F. *Personalized training program for the subnormal*. *Amer. J. ment. Def.*, 1945, 49, 364-368.—Thirty-six pupils, from 4 to 27 years of age, presenting intelligence quotients from less than 30 to a top ranking IQ of 55, comprise this school. A highly personal staff-child relationship has been possible over a period of 8 to 12 years, with releases and replacements averaging 3 a year. The greatly simplified educational program is outlined. Experience has indicated that the group situation is

still the ideal arrangement for social-academic growth.—*S. Whiteside* (Cincinnati Public Schools).

3498. **Kitson, H. D.** The training of a vocational counselor. *J. clin. Psychol.*, 1945, 1, 180-181.—The specific courses essential for training a professional vocational counselor are outlined.—*L. B. Heathers* (Washington).

3499. **Klugman, S. F.** The effect of schooling upon the relationship between clerical aptitude and interests. *J. gen. Psychol.*, 1945, 66, 255-258.—A group of 207 students, subjected to a year of clerical training, were given, before and after the training, the name and number checking parts of the Minnesota Vocational Test for Clerical Workers and were scored on the General Office Worker and Stenographer-Secretary scores of the Strong Vocational Interest Blank for Women. "A year of schooling had no tendency to improve the negligible relationship which existed between clerical interest and aptitude test scores before that period of schooling."—*R. B. Ammons* (Iowa).

3500. **Lynch, J. M.** The applicability of psychological research to education. *J. educ. Psychol.*, 1945, 36, 289-296.—It will be to the mutual advantage of laboratory psychologists and educational psychologists to understand that psychological theories of learning are not established laws but are, rather, hypotheses, ready for further testing in the "laboratory" of educational practice. Psychological theory, so used, should be a helpful guide toward the development of improved educational procedures.—*E. B. Mallory* (Wellesley).

3501. **Magaw, D. C., & Sullivan, L. C.** Relationship of specialized vocational training and community adjustment in higher grade mentally defective boys. *Amer. J. ment. Def.*, 1945, 49, 383-387.—A review is given of the relationship between vocational training at the Wayne County Training School and performance in the community. "This study by no means has been exhaustive, nor is it completed. The discussion deals only with three of an increasing number of interesting conclusions. First, that a large and varied number of manual activities are necessary in the institution as a training and guidance medium. Second, the personnel, especially those serving in any capacity as instructors, exerts the most profound influence in the later success of the boys. Last, because of the isolated nature of institutional life, every effort should be made to increase and maintain live community contacts during the boy's period of institutional training."—*S. Whiteside* (Cincinnati Public Schools).

3502. **Menninger, K.** Graduate training in psychiatry. *Bull. Menninger Clin.*, 1945, 9, 41-46.—At present, graduate training in psychiatry too often consists in a loosely supervised apprenticeship molded about the routine work of hospitals which are primarily custodial institutions. But psychiatry is today a complex specialty with extensive extramural functions for which institutional training (that has never put much emphasis on treatment) provides an inadequate background. The hospital residency in psychiatry should not be abandoned, but rather the training it gives should be reorganized and redirected. The training of a resident cannot be left to chance, nor can residencies which are

essentially only medical assistantships which save the hospital money be expected to provide adequate training. Agreement must be reached among those concerned with psychiatric education in regard to the objectives, the devices, and the content of psychiatric training. A brief outline of suggestions is given.—*W. A. Varvel* (Texas A. & M.).

3503. **Myers, G. E.** The nature and scope of vocational guidance. *J. clin. Psychol.*, 1945, 1, 176-179.—"Vocational guidance brings together from many sources information of many kinds for a specific purpose. Much of this information originated with other agencies; some of it for other purposes. The unique contribution for vocational guidance is that of helping the individual to marshal and evaluate this information in making and carrying out vocational plans . . .".—*L. B. Heathers* (Washington).

3504. **Pressey, S. L., & Troyer, M. E.** Laboratory workbook in applied educational psychology. (Rev. ed.) New York: Harper, 1945. Pp. 76. \$0.80.—This is a revision of the original 1936 manual, consisting now of 26 representative practice lessons with keys. The topics emphasize the experimental approach to learning situations.—*G. W. Hartmann* (Teachers College, Columbia).

3505. **Rhinehart, J. B.** A comparative evaluation of two nursery school-parent education programs. *J. educ. Psychol.*, 1945, 36, 309-317.—The author reports a study of 42 nursery school children forming 3 contrasted groups. Two groups attended the regular nursery school 5 days a week; but some consultation between parents and the staff was provided in the case of one group though not the other. The third group attended only 2 days a week and was supervised chiefly by the children's mothers, who had been given an intensive 4 weeks' training for the project. At the beginning and end of the school year, the Revised Stanford Binet Scale was administered, the Walther Behavior Rating Scale was used, and further data on each child were collected through interviews with the mother. The largest over-all gains were made by the 2-day a week, mother-supervised group. The findings are reported as "objective evidence . . . for the soundness of the current trend of mother-participation programs and home-emphasis in modern preschool training plans."—*E. B. Mallory* (Wellesley).

3506. **Rogers, C. R.** Counseling. *Rev. educ. Res.*, 1945, 15, 155-163.—Thirty-nine references are listed on the objective demonstration of the difference between the value of the subject-centered and the counselor-centered interview. The orderly sequence or change from problem-stating to decisions and plans for the future and from negative to positive feelings was measured both by the analysis of counselor responses and self-ratings by clients. The various therapies were also tested out in the laboratory and later checked by follow-ups. Suggestions are made to include photographs as well as phonographic records in this type of research.—*L. Adams* (Barnard).

3507. **Romano, J.** Psychiatry in undergraduate medical education. *Bull. Menninger Clin.*, 1945, 9, 34-40.—The teacher of psychiatry must be a capable psychiatrist with a working knowledge of the

problems of internal medicine, pediatrics, and surgery, and a reasonable familiarity with the methods of modern physiology, psychology, and social case work. Students must be taught the fundamental concepts of human nature, the normal emotional experiences of sick people, the emotional origin of some illnesses, an understanding of illness associated with disturbed cerebral metabolism, some classificatory knowledge of diagnostic syndromes, an awareness of their own emotional biases, and the limitations of psychotherapy.—*W. A. Varvel* (Texas A. & M.).

3508. Roy, H. L. A comparison of the performance of freshmen and sophomores in general psychology. *Psychol. Bull.*, 1945, 42, 371-375.—The performance in general psychology of 209 freshmen and 218 sophomores, matched as to ability, was studied. It was found that sophomores earned a grade average above the satisfactory level, while freshmen earned a grade average slightly below the satisfactory level.—*S. Ross* (U. S. Naval Reserve).

3509. Schultz, F. G. Recent developments in the statistical analysis of ranked data adapted to educational research. *J. exp. Educ.*, 1945, 13, 149-152.—The authors show, by way of application to a practical problem, how the analysis of variance of ranks, developed by Friedman, and the rank correlation ratio, developed by Wallis, may be adapted to educational research.—*E. B. Mallory* (Wellesley).

3510. Seagoe, M. V., & Cooper, E. K. Characteristics and needs of the individual. *Rev. educ. Res.*, 1945, 15, 101-111.—Research in the relation of physical and mental characteristics to the personality of children and their success in school at 3 school levels is reviewed (55 references). Also, problems of guidance in industry and of veteran adjustment are discussed.—*L. Adams* (Barnard).

3511. Strang, R., & Wollner, M. Guidance through groups. *Rev. educ. Res.*, 1945, 15, 164-172.—In the past year, research (43 references) has been made on the use of sociometric techniques to obtain personality pictures and to understand interpersonal relations and leadership. A research suggestion is made to compare the group leader role with a teacher directive role in the classroom, with the teacher the experimenter and the pupils' progress the variable measured.—*L. Adams* (Barnard).

3512. Townsend, A. Achievement and interest ratings for independent-school boys. *Educ. Rec. Bull.*, 1945, No. 43, 49-54.—A comparison of scores made by preparatory school boys on the Strong Interest Blank and in the Educational Records Bureau program of tests shows little positive relationship between interest rating in an occupation and achievement test score in an allied subject. These data tend to confirm the impression that the Strong Vocational Interest Blank measures factors relatively independent of achievement.—*E. B. Mallory* (Wellesley).

3513. Trabue, M. R. The role of the psychologist in vocational guidance. *J. clin. Psychol.*, 1945, 1, 182-185.—The author discusses the functions of psychometricians, clinical psychologists, educational psychologists, and vocational counselors. In order to give the client the most competent service possible,

each of the above should, where possible, utilize the special skills of the others rather than attempting to give help in fields where he might be incompetent.—*L. B. Heathers* (Washington).

3514. Traxler, A. E. Provisions for reading instruction in secondary schools and colleges holding membership in the Educational Records Bureau. *Educ. Rec. Bull.*, 1945, No. 43, 55-66.—Questionnaires on practices in developmental and remedial reading were returned by 117 independent secondary schools, 8 public high schools, and 8 colleges. The data are presented in tabular form and are further analyzed. About 29% of the schools reported a developmental reading program designed to meet the reading needs of all pupils. In the majority of the schools, guidance in reading is given by English teachers, teachers of the content subjects, or the school librarian; and only about a quarter of the schools have a person giving half time or more to this work.—*E. B. Mallory* (Wellesley).

3515. Warren, J. D. Printing for the higher grade mental defective. *Amer. J. ment. Def.*, 1945, 49, 373-376.—Printing instruction is extended to all boys at the Wayne County Training School. Values such as accuracy, patience, neatness, better finger manipulation, better knowledge of letters and numbers, spelling and punctuation, better acquaintance with printed forms, and encouragement of artistic ability are gained by all boys. From the avocational groups the instructor picks vocational prospects and intensively trains these few for community placement. In this respect the print shop is one of the school's most productive assignments.—*S. Whiteside* (Cincinnati Public Schools).

3516. Wood, B. D. [Dir.] 1945 achievement testing program in independent schools and supplementary studies; summary of test results. *Educ. Rec. Bull.*, 1945, No. 43. Pp. 1-48.—In the 18th annual achievement testing program of the independent-school members of the Educational Records Bureau, the tests employed were the Metropolitan Achievement Tests, Form C, in the elementary school grades; the Cooperative Achievement Tests and the Lincoln Diagnostic Spelling Test, Form 1, in the secondary school grades; and the Secondary Education Board Junior Scholastic Aptitude Test, Forms F and FR, in grades VII, VIII and IX. Tables of results are presented, based on 85,430 tests from 242 schools. In general, there was a definite tendency for the spring 1945 medians to be lower than those of earlier years.—*E. B. Mallory* (Wellesley).

3517. Yale, J. R. [Ed.] Frontier thinking in guidance. Chicago: Science Research Associates, 1945. Pp. 160. \$2.00.—Twenty-four articles, recently published in the field of guidance, were selected to represent current viewpoints on guidance services and education, school guidance programs in operation, readjustment services for veterans, tools for the guidance worker, and counselor training.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

[See also abstracts 3249, 3316, 3321, 3339, 3416, 3429, 3445, 3530.]

MENTAL TESTS

3518. Geil, G. A. A clinically useful abbreviated Wechsler-Bellevue Scale. *J. Psychol.*, 1945, 20, 101-108.—"An abbreviated form of the Wechsler-Bellevue Scale has been presented which fulfills the requirements of (a) time economy, (b) accuracy of intelligence ratings, and (c) clinical screening capacity. An Abbreviated Scale composed of the tests of Comprehension, Similarities, Digits, and Block Design requires approximately 25 minutes to administer, shows a correlation of $.966 \pm .003$ with the IQ's of the Full Scale, and is a valuable screening instrument for psychotically and organically-handicapped patients."—R. B. Ammons (Iowa).

3519. Lewinski, R. J. The psychometric pattern: I. Anxiety neurosis. *J. clin. Psychol.*, 1945, 1, 214-221.—Twenty-five white males, diagnosed as psychoneurosis (anxiety neurosis) following psychiatric examination, were given the Wechsler-Bellevue Adult Intelligence Scale to afford qualitative and quantitative data regarding their performance on this test. The factors considered in evaluating such performance were (a) the number of patients deviating either positively or negatively on each subtest from their own mean weighted score on all 10 tests, and (b) the magnitude of the median deviation on each subtest. The results indicated no significant difference between verbal and performance IQ scores, no significantly deviating patterns on the subtests according to Wechsler's standards for significant deviations, and fairly good agreement with Wechsler's empirical findings regarding the level of performance expected on the various subtests. Qualitatively, the patients showed more tension, anxiety, and perseveration than normal persons.—L. B. Heathers (Washington).

3520. Valentine, C. W. Intelligence tests for young children. London: Methuen, 1945. Pp. xii + 66. 4s.—The object of this book is to present, for the use principally of teachers and those who are not expert intelligence testers, a series of individual intelligence tests for children from 1½ to 11 years. Eight to 10 tests are given for half-yearly ages up to 4 years and thereafter at yearly intervals, with rather fewer but longer tests for the older children. Verbal and performance tests are included; they are taken from Burt's revision of the Binet-Simon tests, the Terman-Merrill revision, the Merrill-Palmer and the Gesell scales, and additional tests by the author. The items are likely to be attractive to children and to show up every facet of their intelligence. The author also discusses the selection, use, and standardization of the tests and gives instructions and a description of procedure.—M. D. Vernon (Cambridge).

[See also abstract 3386.]

CHILDHOOD AND ADOLESCENCE

3521. Ames, L. B. Free drawing and completion drawing: a comparative study of preschool children. *J. genet. Psychol.*, 1945, 66, 161-165.—One hundred forty-one children of average and 100 of superior intelligence, ranging from 2½ to 6 CA, were asked first to draw a man, then to complete a partial draw-

ing of a man. When a single member was present in partial form, the other member was added at an earlier age than in the free-drawing situation. Parts not present in the partial form appeared at the same or an earlier age in the free-drawing situation. The free drawing of a man had more parts added by the superior children starting at CA 6, and by the average, starting at CA 5. This indicates that the partial form aids drawing at earlier and hinders it at later ages. The fact that the emergence of part additions is in almost the same order in both situations seems to confirm the importance of maturational over situational factors in the emergence of drawing behaviors.—R. B. Ammons (Iowa).

3522. Bain, R. Needed research in parent-child fixation. *Amer. sociol. Rev.*, 1945, 10, 208-216.—The history of the concept of parent-child fixation is reviewed briefly, and the author describes and defines it further, dividing it into several types. Methods of investigation are discussed, and 20 questions concerning the concept are raised.—C. N. Cofer (U. S. Naval Reserve).

3523. Baldwin, A. L. An analysis of some aspects of feeding behavior. *J. genet. Psychol.*, 1945, 66, 221-232.—On the basis of interviews with mothers, 72 children being studied by the Samuel S. Fels Research Institute were rated as to appetite, finicalness, and behavior at the table. Analysis was made of the relation of these variables to the physical status, home environment, and personality of the children. Children with poor appetites showed a limited tendency to be less well developed physically. Good table behavior tended to appear in homes with more severe discipline; and good appetite, in homes where the child received approval. Lack of finicalness appeared related to a pattern of parent approval, interest, and protectiveness. Children with good appetites conformed with "spontaneous happiness"; children with good table behavior conformed due to a pattern of fear and social isolation.—R. B. Ammons (Iowa).

3524. Bentley, M. The reconstructing teens and the stabilizing twenties. *Amer. J. Psychol.*, 1945, 58, 324-360.—The author summarizes the developmental sequence of sane behavior during adolescence and early adulthood. It is emphasized that growth is a continuous process, that despite the puberty ceremonies common in many civilizations, at no single point can it be said that now the child is an adult. Especially important is the acceptance by the adult of responsibility and self-direction. In 5 ways society supports and encourages this developmental process: it demands that the child learn, that he work, that he use past experience, that he distinguish the actual from the imagined, and that he control his emotions. These supports, of course, continue to function during the third decade. The meaning of true adulthood and the failure of many chronological adults to attain it are discussed.—D. E. Johannsen (Bellevue Hospital).

3525. Burbury, W. M., Balint, E. M., & Yapp, B. J. An introduction to child guidance. London: Macmillan, 1945. Pp. viii + 200. 7s. 6d.—This book gives a comprehensive account of the work of an English child guidance clinic, run by a team comprising a psychiatrist, educational psychologist,

and psychiatric social worker. It is intended for all those interested in the work of such clinics, whether educationists, social workers, or students. The director (and psychiatrist) describes the general principles and aims of the clinic, the types and sources of cases, the general causes of maladjustment in children, the psychiatric interview, and individual therapeutic treatment. The educational psychologist deals with the establishment and organization of the clinic, the child's school background and its relation to maladjustment, intelligence testing and remedial teaching, and the group therapy of children. The social psychiatric worker discusses the influence of the home background on the maladjustment of children and the manner in which the child's social environment can be investigated and modified to help his readjustment.—*M. D. Vernon* (Cambridge).

3526. **Elkisch, P.** *Children's drawings in a projective technique.* *Psychol. Monogr.*, 1945, 58, No. 1. Pp. v + 31.—On the basis of study of a sample of 2,200 drawings and paintings by 25 children, a more complete analysis was made of the art products of 8 children, selected on the basis of sociometric ratings. Four children were low in popularity, 3 high, and 1 was in the middle range. Three of the 4 low-scoring children showed maladjustment in their drawings: "rule (rigidity as well as inertness), simplicity, compression, disintegration, and a lack of realism, or the prevalence of symbolism. In the art products of three children . . . whose sociometric scores were high, there was evidence of adaptive ability as expressed in the prevalence of rhythm over rule, complexity over simplicity, expansion over compression; integration was dominant, and a healthy attitude toward realism." Samples of drawings and their interpretations according to these criteria are presented, and suggestions are offered for the general use of a scale based on these criteria.—*L. J. Stone* (U. S. Public Health Service Reserve).

3527. **Goldfarb, W.** *Effects of psychological deprivation in infancy and subsequent stimulation.* *Amer. J. Psychiat.*, 1945, 102, 18-33.—Results are presented of a comparative study of matched groups of foster-home children and institutional children who were subsequently transferred to foster homes. The factors studied included intellect, language, motor co-ordination, social maturity, and personality. The author concludes as follows: "There is cumulative evidence that an extensive period of deprivation of babies in an infant institution is profoundly detrimental to their psychological growth. There is also evidence that the pernicious effects of the early experience persist even in the face of careful placement in selected foster homes, casework supervision and, in some cases, psychiatric treatment. The extreme deprivation experience of the institution children has apparently resulted in a quasi-constitutional fixation on the most primitive levels of conceptual and emotional behavior."—*R. D. Weitz* (Jersey City, N. J.).

3528. **Jewish Board of Guardians Staff.** *Primary behavior disorder in children . . . two case studies.* New York: Family Welfare Association of America, 1945. Pp. 59. \$0.60.—Two case studies illustrate the methodology "of direct psychological treatment of children with personality difficulties" in the field

of child guidance. "The treatment methods here illustrated were developed through the collaboration of case workers and psychiatrists working together to help maladjusted children." Both cases are presented by the responsible case workers, with interpretive comment by the staff psychiatrist. Therapeutic progress is clearly shown. Primary behavior disorders are seen as those in which "aggressive behavior disorders, present since childhood, do not seem to be explainable on the basis of pathological processes, but do seem to be the patterned reaction to unfavorable environmental influences."—*L. J. Stone* (U. S. Public Health Service Reserve).

3529. **Lafore, G. G.** *Practices of parents in dealing with preschool children.* *Child Developm. Monogr.*, 1945, No. 31. Pp. xiv + 150.—The behavior of parents and preschool children in their dealings with one another was recorded during periods of observation in 21 homes. The frequency of various kinds of approach (e.g., "positive": praises, bestows affection, enjoys child as social companion, etc.; "negative": blames, threatens, etc.; and "neutral") was determined as was the frequency of practices apparently designed to achieve various purposes, such as the learning of language, motor skills, social conformity, and development of curiosity. Interrelations between the practices of parents and the behavior of children were also examined. Some findings are as follows: Parents could roughly be differentiated, according to the predominant characteristics of their approach, as dictatorial, co-operative, appeasing, and temporizing. Parents frequently hurried and cautioned children when the latter already were doing their best. Parents who showed the highest incidence, respectively, of (1) dictating and interfering, (2) blaming and punishing, and (3) ignoring or diverting tended to evoke in children the highest incidence, respectively, of (1) hostility, (2) crying, and (3) teasing and nagging. Parents frequently fail to recognize the incessant day-by-day demands of preschool children as an inevitable developmental phenomenon and as part of the business of having a child. A parent who accepts telephone calls or visiting salespeople as valid interruptions often does not regard interruption by a child as being equally or more legitimate.—*A. T. Jersild* (Columbia).

3530. **Lehtinen, L. E., & Strauss, A. A.** *Arithmetic fundamentals for the brain-crippled child.* *Amer. J. ment. Def.*, 1944, 49, 149-154.—In line with the thesis that the brain-crippled deficient child offers a problem of its own in special education, a method for training fundamentals in arithmetic is presented. A child mentally retarded as the result of a brain lesion often cannot acquire pre-academic skills in number work because of his general disturbances or specific deficiencies, although he may have a mental age of 4 or 5 years. Various devices with concrete materials are suggested for meeting specific deficiencies.—*S. Whiteside* (Cincinnati Public Schools).

3531. **Meyers, C. E.** *The effect of conflicting authority on the child.* *Univ. Ia Stud. Child Welf.*, 1944, 20, No. 409, 31-98.—Variations in adult authority in controlling the young child were studied experimentally. Sixty-one children, 25 to 62 months of age, were observed individually. The child who

was engaged in play was given commands in pairs by two adults. Four types of commands were given: agree-positive, agree-negative, disagree-positive, and disagree-negative. A control group was also observed. Children given AP commands and control children showed no changes in maturity level of their activities; other groups showed significantly lower maturity scores after commands. Commands with a strong restraining influence (AN) resulted in the greatest amount of stiff and inhibited activity. There were striking decreases in constructive activity after DN, AN, and DP commands. The children in the DP and DN groups showed a marked increase in number of changes from one activity to another. There were significant increases in nervous behavior following AN and DN commands. The DP group was disobedient to nearly half the commands. Parents of the children who exhibited non-compliance in the experiment were rated by the teacher significantly higher on attitudes of rejection and submission.—*B. Wellman* (Iowa).

3532. Partridge, E. D. What has the last decade done to our adolescents? *Nerv. Child*, 1945, 4, 147-150.

3533. Planchard, E. Les échelles analytiques et les profils psychologiques dans l'étude des enfants. (Analytical scales and psychological profiles in child study.) *Criança portug.*, 1944, 3, 247-268.—Discussion, with illustration, is given of methods of representing co-ordinated measures of psychological capacities and aspects of growth. Included are the schemes of Rossolimo, Vermeylen, Mühlén, Lazoursky, and others, showing profile samples.—*H. D. Spoerl* (Jeffersonville, Vt.).

3534. Rankin, M. Children's interests in library books of fiction. *Teach. Coll. Contr. Educ.*, 1944, No. 906. Pp. xii + 146.—In order to determine the trends in and reasons for popularity in children's books, a study was made of the 20 most popular children's books of fiction (as judged by circulation records) in 8 representative public libraries. Ten books were popular in 5 or more of the libraries. Children's procedures in selecting books were observed, and their reasons for preference were studied. A comparison was made between the 10 highly popular books and 7 less popular books which had been given the American Library Association's annual Newbery award. Differences in setting, style, and format are noted. Reasons for selection include favorite theme, recommendation of another, and familiar author. Length and newness of book or book reviews had little apparent influence on selection. Bibliography of 98 titles.—*L. B. Plumlee* (College Entrance Examination Board).

3535. Solomon, C. I., Brown, W. T., & Deutscher, M. Electroencephalography in behavior problem children. *Amer. J. Psychiat.*, 1944, 101, 51-61.—EEG's of the 20 best behaved boys were compared with those of the 20 most troublesome in a junior high school class of 131 in the age range 13-16½. Social, economic, and cultural background was similar in both groups. There were 12 abnormal tracings in the first group and 11 in the second. Intelligence level did not appear to influence the results. Comparison of EEG's of the 10 best behaved and least delinquent boys in an institution for delinquent

boys and the 10 most chronic delinquents with the most severe types of behavior disorder showed abnormal tracings in 4 of the former and 9 of the latter group. However, the frequent presence of similar abnormal tracings in normal children and of normal tracings in problem children makes interpretation difficult in individual cases. Except in cases where the EEG indicates hidden focal lesions or cryptic epilepsy, other findings of dysrhythmia may only be regarded as probably additional unfavorable personal factors among many others adversely influencing behavior. "Studies and results to date do not warrant further interpretation or clinical application in diagnosis, therapy, or prognosis."—*E. B. Brody* (Yale).

3536. Symonds, P. M. Inventory of themes in adolescent fantasy. *Amer. J. Orthopsychiat.*, 1945, 15, 318-328.—These are the first results of a study of adolescent fantasy using the picture-story method; 42 pictures were specially drawn for the study, each containing at least one adolescent figure with which an adolescent boy or girl might identify. Stories were secured on the 42 pictures from 20 normal boys and 20 normal girls in junior and senior high school. The count of themes here presented should be useful in future interpretation of fantasy material and should serve as normative data against which to compare fantasy productions of individuals and groups.—*R. E. Perl* (New York City).

3537. Wolberg, L. R. Adjustment problems in male adolescence. *Nerv. Child*, 1945, 4, 129-134.

3538. Wolberg, L. R. A note on the treatment of aggression in emotionally disturbed children. *Psychiat. Quart.*, 1944, 18, 667-673.—The symbolic significance of aggression to the child and the situations under which it is most likely to appear must be known before therapy can be instituted. The meaning of aggression must be understood as a symptom of a more widespread personality disorder. Several types of underlying mechanisms are discussed with practical suggestions for their treatment. The author thinks in analytic terms, and the importance of the superego, which may be diminutive or hypertrophied and primitive, is emphasized.—*E. B. Brody* (Yale).

3539. Worcester, D. A. Mental maturity from birth to preadolescence. *Rev. educ. Res.*, 1944, 14, 390-400.—Listed are 81 references, the main topics of which are as follows: suggestions for measuring infant intelligence by adaptability measures; cautions on interpreting intelligence below three months; further evidence of the effect of environment upon change in intelligence tests scores from the point of view of socioeconomic and seasonal gains; data on the lack of difference between Jewish and Scandinavian second-generation children in intelligence measures; material on the gifted child and the relation between his well-known inferior achievement and his tendency to specialize; a review of experimental data on the deaf and brain-injured child; and finally a repeated plea to realize the necessity of considering the child as a whole.—*L. Adams* (Barnard).

[See also abstracts 3359, 3398, 3412, 3415, 3418, 3428, 3461, 3481, 3505, 3510, 3520.]

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(Brown University)

WITH THE CO-OPERATION OF

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R. KURODA *Keijo Imperial University*
R. NIHARD *University of Liège*
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Note on Periodical Abbreviations

Periodical abbreviations cited in *Psychological Abstracts* follow those of the *World List of Scientific Periodicals*, 2nd edition, 1934 (Oxford University Press). A key to periodical abbreviations was published in *Psychological Abstracts*, 1941, 16, 641-649, and included all the periodicals represented in that volume.

ADDITIONAL DOCUMENTS

THE following documents are submitted for the consideration of the Committee on the part of the Department of the Interior, and are intended to illustrate the progress of the work of the Department in the various branches of its administration, and to show the results of the various measures which have been adopted for the improvement of the same.

The first document is a report of the Commissioner of the General Land Office, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Department during the year 1879.

The second document is a report of the Commissioner of the Bureau of Land Management, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The third document is a report of the Commissioner of the Bureau of Reclamation, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The fourth document is a report of the Commissioner of the Bureau of Indian Affairs, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The fifth document is a report of the Commissioner of the Bureau of Geographical Names, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The sixth document is a report of the Commissioner of the Bureau of Mineral Lands, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The seventh document is a report of the Commissioner of the Bureau of Fish and Game, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

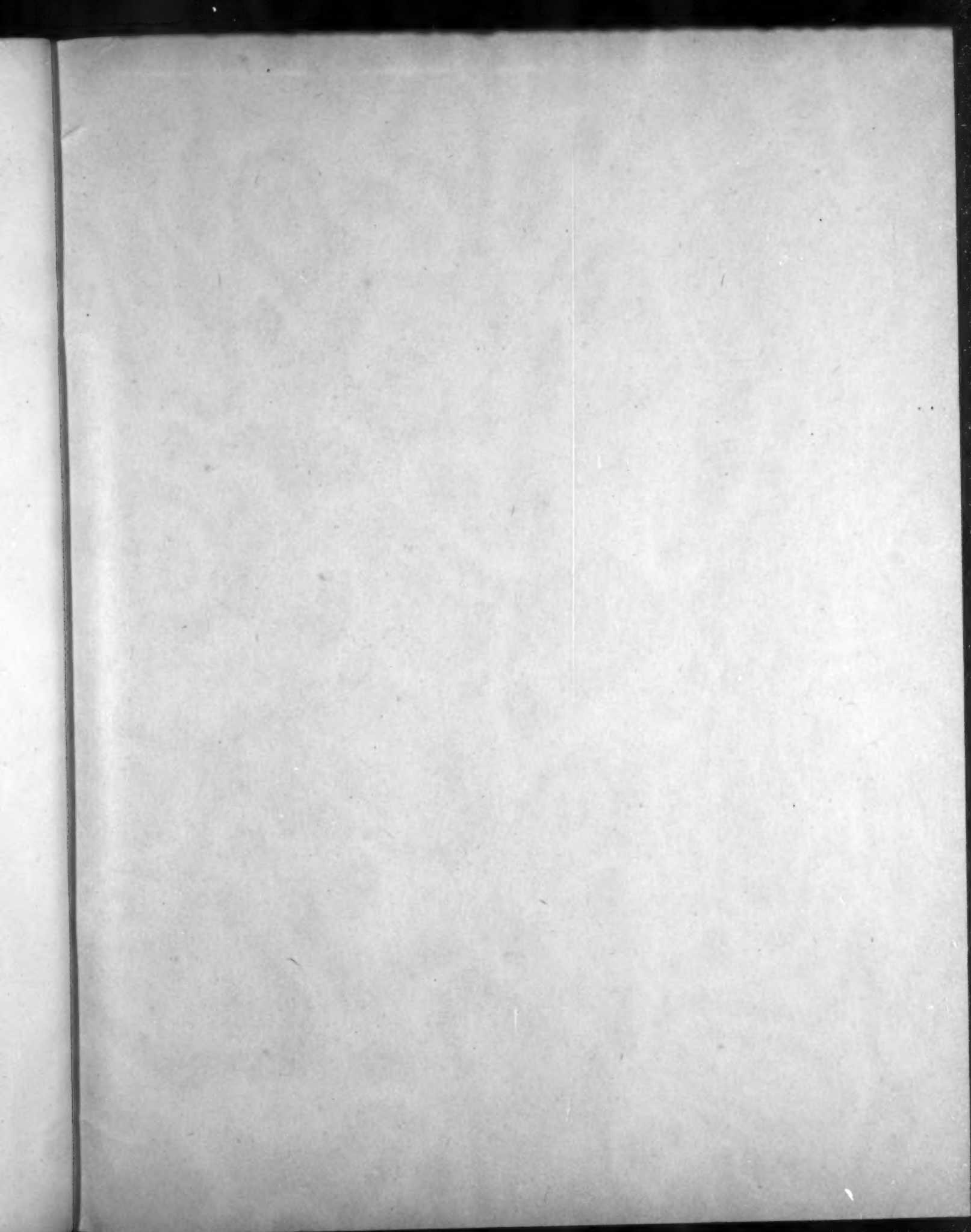
The eighth document is a report of the Commissioner of the Bureau of Forestry, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The ninth document is a report of the Commissioner of the Bureau of Parks and Monuments, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

The tenth document is a report of the Commissioner of the Bureau of Public Lands, dated the 1st of January, 1880, and contains a full and complete statement of the work of the Bureau during the year 1879.

APPENDIX

THE following documents are submitted for the consideration of the Committee on the part of the Department of the Interior, and are intended to illustrate the progress of the work of the Department in the various branches of its administration, and to show the results of the various measures which have been adopted for the improvement of the same.



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